P75

SERVICE MANUAL

US Model
Canadian Model
UK Model
AEP Model
N. Hemisphere Model
S. Hemisphere Model
Australian Model

Chassis No. SCC-L07E-A

D-1H CHASSIS

SPECIFICATIONS

Picture tube	0.25 mm aperture grill pitch 17 inches measured diagonally 90-degree deflection
Video image area	(16" maximum viewing image) Approx. 329.5 x 243 mm (w/h) (13 x 9 5/8 inches)
Max. resolution	Horizontal: Max. 1280 dots Vertical: Max. 1024 lines (at 75 Hz Refresh Rates)
Standard image area	Approx. 306 x 230 mm (w/h)(Mode 1-13) Approx. 294 x 231 mm (w/h)(Mode 14-15)
Input signal	
Video	Analog RGB (75 ohms typical) 0.7 Vp-p, Positive
Sync	External HD/VD, Composite Polarity Free TTL Video Composite (Sync on Green) 0.286 Vp-p, Negative
Power Consumption	
Maximum	115W
Nominal	100W, 341 BTU/h
Deflection frequency	Horizontal: 30 to 85 KHz Vertical: 50 to150 Hz
AC input voltage / current	100 to 120 V, 50/60 Hz, 1.8 A 220 to 240V, 50/60Hz, 1A
Dimensions	424 x 422 x 428 (w/h/d) (16.7 x 16.6 x 16.9 inches)
Mass	Approx. 18.48 kg (40.8 lb.)

Design and specifications are subject to change without notice.

COLOR MONITOR

COMPAQ

POWER SAVING FUNCTION

This monitor has three Power Saving modes.
By sensing the absence of a video signal from the computer, it reduces power consumption as follows:

NOTE: If no video signal is input to the monitor, the "NO INPUT SIGNAL" message appears. After about 30 seconds, the Power Saving function automatically puts the monitor into active-off mode and the indicator lights up orange. Once the monitor detects horizontal and vertical sync signals, the monitor automatically resumes normal operation mode.

	State	Power Consumption	Required Recovery Time	⏻ Power Indicator
1	Normal Operation	≤110W	———	Green on
2	Standby (1st mode)	≤15W	approx. 3 sec.	Yellow
3	Suspend (2nd mode)	≤15W	approx. 3 sec.	Yellow
4	Active-off (3rd mode)	≤8W	approx. 10 sec.	Amber
5	Power-off	0W	———	Off
6	Failure mode	———	———	Orange flashing

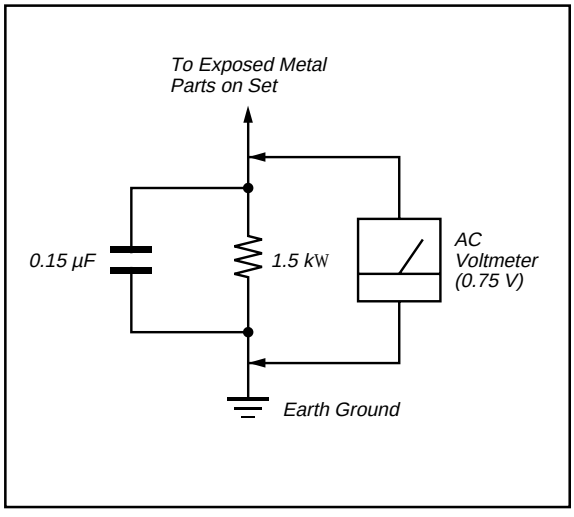
TIMING SPECIFICATION

MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Resolution (H x V)	640x350	640X480	640x480	640x480	720x400	800x600	800x600	800x600	832x624	1024x768	1024x768	1024x768	1152x870	1280x1024	1280x1024
Dot Clock (MHz)	25.175	25.175	31.500	36.000	28.321	40.000	49.500	56.250	57.283	65.000	78.750	94.500	100.000	108.000	135.000
HORIZONTAL															
Hor. Freq. (kHz)	31.469	31.469	37.500	43.269	31.468	37.879	46.875	53.674	49.725	48.363	60.023	68.677	68.681	63.981	79.976
H-Total	31.778	31.778	26.667	23.111	31.779	26.400	21.333	18.631	20.111	20.677	16.660	14.561	14.560	15.630	12.504
H-Blanking	6.356	6.356	6.349	5.333	6.356	6.400	5.172	4.409	5.586	4.923	3.657	3.725	3.040	3.778	3.022
H-Front Porch	0.636	0.636	0.508	1.556	0.636	1.000	0.323	0.569	0.559	0.369	0.203	0.508	0.320	0.444	0.119
H-Sync.	3.813	3.813	2.032	1.556	3.813	3.200	1.616	1.138	1.117	2.092	1.219	1.016	1.280	1.037	1.067
H-Back Porch	1.907	1.907	3.810	2.222	1.907	2.200	3.232	2.702	3.910	2.462	2.235	2.201	1.440	2.296	1.837
H-Active (msec)	25.422	25.422	20.317	17.778	25.423	20.000	16.162	14.222	14.524	15.754	13.003	10.836	11.520	11.852	9.481
VERTICAL															
Ver. Freq. (Hz)	70.086	59.940	75.000	85.008	70.084	60.317	75.000	85.061	74.550	60.004	75.029	84.997	75.062	60.020	75.025
V-Total	449	525	500	509	449	628	625	631	667	806	800	808	915	1066	1066
V- Blanking	99	45	20	29	49	28	25	31	43	38	32	40	45	42	42
V-Front Porch	38	10	1	1	12	1	1	1	1	3	1	1	3	1	1
V-Sync.	2	2	3	3	2	4	3	3	3	6	3	3	3	3	3
V- Back Porch	59	33	16	25	35	23	21	27	39	29	28	36	39	38	38
V-Active (lines)	350	480	480	480	400	600	600	600	624	768	768	768	870	1024	1024
SYNC.															
Int(G)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ext(H/V)/Polarity	YES +/-	YES -/-	YES -/-	YES -/-	YES -/+	YES +/+	YES +/+	YES +/+	YES -/-	YES -/-	YES +/+	YES +/+	YES -/-	YES +/+	YES +/+
Ext (CS)/Polarity	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Int/Non Int	Non Int	Non Int	Non Int	Non Int	Non Int	Non Int	Non Int	Non Int	Non Int	Non Int	Non Int	Non Int	Non Int	Non Int	Non Int

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.



LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampere). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63Trd are examples of passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

WARNING!!

NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

AVERTISSEMENT!!

NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVEE.

ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSEES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMERO DE PIECE EST INDIQUE DANS LE PRESENT MANUEL OU DANS DES SUPPLEMENTS PUBLIES PAR SONY. LES REGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRESENT MANUEL. SUIVRE CES PROCEDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONTIONNEMENT SUSPECTE.

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SECTION 1
GENERAL

The instructions given here are partial abstracts from the Operating Instruction Manual. The page numbers shown reflect those of the Operating Instruction Manual.

USB Connectors

The base of the monitor has two Universal Serial Bus (USB) connectors. Use USB connector ❶ to connect the USB signal cable* to the computer. Use USB Connector ❷ to connect USB compatible plug and play devices such as a keyboard, mouse, or joystick if supported by your computer. This feature provides USB pass-through and does not support USB host requirements.

CAUTION: This USB connector is not designed for use with high speed USB devices such as a video camera, scanner, etc. Compaq recommends connecting high speed devices directly to the computer.

These USB connectors operate as a pass-through system. Your computer must have a USB host controller installed for any USB-connected devices to operate.

CAUTION: To prevent deterioration of signal transfer or malfunction of USB devices, USB cables should not exceed the combined length of 9.75 feet (3 meters). This length includes both the USB signal cable and the USB peripheral cable.

* A USB signal cable is not supplied with this monitor.

Operating the Monitor

Front Control Panel

No./	Icon	Control	Function
1	◑	Contrast	Adjusts contrast by turning control to left or right.
2	☼	Brightness	Adjusts brightness by turning control to left or right.
3		Select button	1. Launches on-screen display. 2. Selects function adjustments. 3. Exits menus and on-screen display.
4	−	Minus button	Selects and adjusts the functions.
5	+	Plus button	Selects and adjusts the functions.
6	⏻	Power switch	Turns the monitor on and off.
7		Power LED	1. Green indicates monitor is turned on. 2. Yellow indicates suspend mode. 3. Amber indicates sleep mode.

On-Screen Display Settings

The adjustments for screen settings are located in the on-screen display and can be viewed in one of five available languages. The on-screen Main Menu displays the following ten functions:

Size and Position	Adjusts width, height, and horizontal and vertical positions of the screen.
Geometry	Adjusts pincushion, pincushion balance, trapezoid, parallelogram, and tilt.
Overscan	Zooms in and enlarges a selected portion of the screen.
Color	Displays the following selections for screen color temperature: 9300° K; 6500° K; Custom Color/Enhancement Color; and Convergence.
Enhancement	Enhances screen for screen presentations or viewing motion video applications.
Moiré	Minimizes irregular or wavy lines on the screen raster.
Degauss	Corrects image distortion or color impurity caused by external magnetic fields.
Language	Lists the following five language selections for on-screen display: English, Dutch, French, German, and Spanish.
Management	Adjusts power saver and display modes and displays monitor serial number.
Factory Reset	Resets the screen to its factory settings.

How to Adjust Settings

To launch the on-screen display Main Menu:

1. Press the Select button 1 on the monitor front panel to display the Main Menu on the monitor screen.
2. To make a selection from the Main Menu, scroll down by pressing the Minus (-) button 2 and reverse or back up by pressing the Plus (+) button ❸ located on the monitor front panel.
3. Highlight your choice and press the *Select* button 1 again.

   For example, if your selection is *Size and Position*, press the Minus button 2 until *Size and Position* is highlighted, then press the Select button 1 to choose it.

Monitor with On-Screen Display

4. A second level menu displays with expanded menu items. Again, to make a selection, press the Minus (-) button 2 to scroll down or press the Plus (+) button 3 to reverse or back up.

IMPORTANT: The Overscan and Degauss selections do not display menus. When you select Overscan, the choices are to turn it on or off. When you select Degauss, the monitor corrects color impurities on the screen. The monitor screen automatically degausses when the monitor is turned on.

5. Highlight your choice and select *Save and Return*, or to advance to the third level menu, highlight your choice and press the Select button. To void any changes made, select *Cancel* instead of *Save and Return.*
6. The third level displays a sizing window for adjusting the selected function. To adjust, press the Minus button to decrease the degree of adjustment, or press the Plus button to increase the degree of adjustment.
7. Press the Select button after the adjustment is made.

IMPORTANT: Selections under the Management Menu, Power Saver and Mode Display, turn on and off at the third level. The Serial No. selection displays the monitor serial number at the third level.

Display Resolutions

The display resolutions listed below are the most commonly used modes and are set as factory defaults. The monitor automatically recognizes these preset modes when they are requested by a software program and will provide the user with a properly sized and centered display.

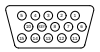
Display Resolutions

Preset Modes	Resolutions
1. VGA Compatible	640 X 350 at 31.5 kHz/70 Hz
2. VGA Compatible	640 X 480 at 31.5 kHz/60 Hz
3. VESA Standard	640 X 480 at 37.5 kHz/75 Hz
4. VESA Standard	640 X 480 at 43.3 kHz/85 Hz
5. VGA Compatible	720 X 400 at 31.5 kHz/70 Hz
6. VESA Standard	800 X 600 at 37.8 kHz/60 Hz
7. VESA Standard	800 X 600 at 46.9 kHz/75 Hz
8. VESA Standard	800 X 600 at 53.7 kHz/85 Hz
9. Macintosh Compatible	832 X 624 at 49.72 kHz/74.5 Hz
10. VESA Standard	1024 X 768 at 48.4 kHz/60 Hz
11. VESA Standard	1024 X 768 at 60.0 kHz/75 Hz
12. VESA Standard	1024 X 768 at 68.7 kHz/85 Hz
13. Macintosh Compatible	1152 X 870 at 68.7 kHz/75 Hz
14. VESA Standard	1280 X 1024 at 63.9 kHz/60 Hz
15. VESA Standard	1280 X 1024 at 80.0 kHz/75 Hz

Memory channels 9 and 13 are Macintosh-compatible display modes for use with a Macintosh-compatible computer. If your computer has this requirement, you will need to purchase a special adapter connector to attach to the monitor signal cable.

Connector Pin Assignments

Signal Cable

Connector	Pin	Signal
	1	Red Video
	2	Green Video
	3	Blue Video
	4	Open
	5	Return
	6	Red Gnd
	7	Green Gnd
	8	Blue Gnd
	9	Reserved (No Pin)
	10	Sync Return
	11	Open
	12*	Bidirectional Data (SDA)
	13	H-Sync/Composite Sync
	14	V-Sync
	15*	Data Clock (SCL)

* DDC Signals

Color Display Values

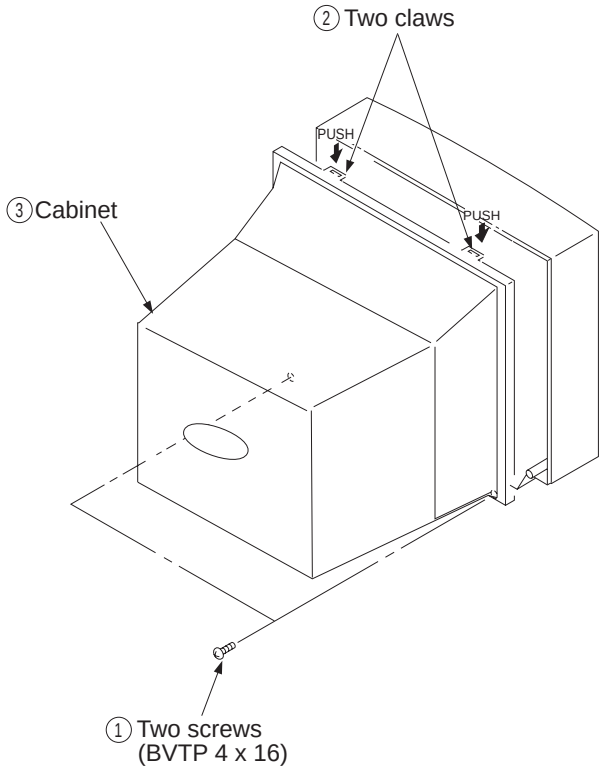
CIE* Chromaticity Coordinates

	x	y
Red	0.625	0.340
Green	0.285	0.605
Blue	0.150	0.065
White Point (9300 K)	0.281 (+/- .015)	0.311 (+/- .015)
White Point (6500 K)	0.313 (+/- .015)	0.329 (+/- .015)
Gamma: 2.25		

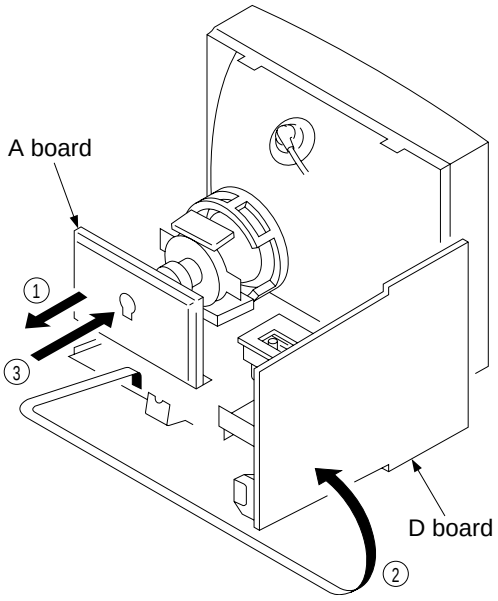
*Commission International d'Eclairage, 1931 Standard.

SECTION 2
DISASSEMBLY

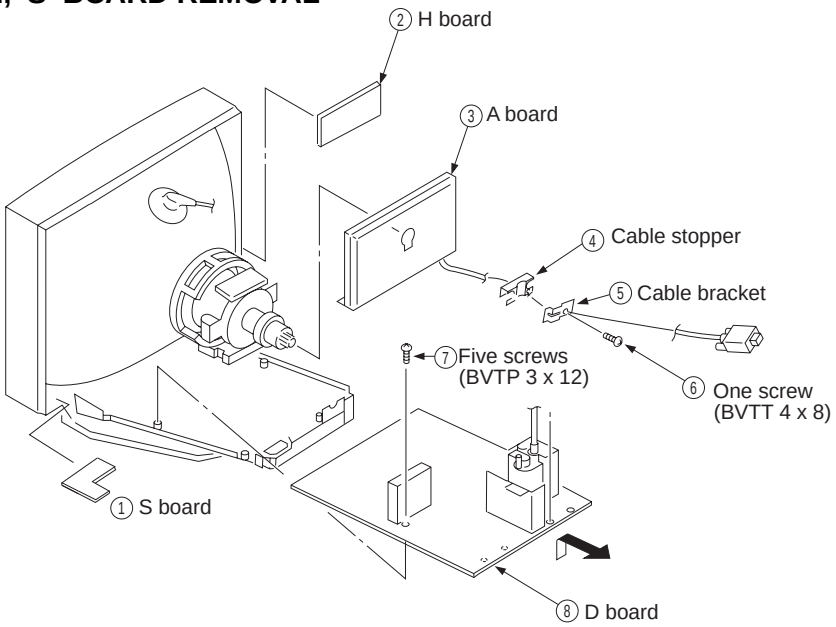
2-1. CABINET REMOVAL



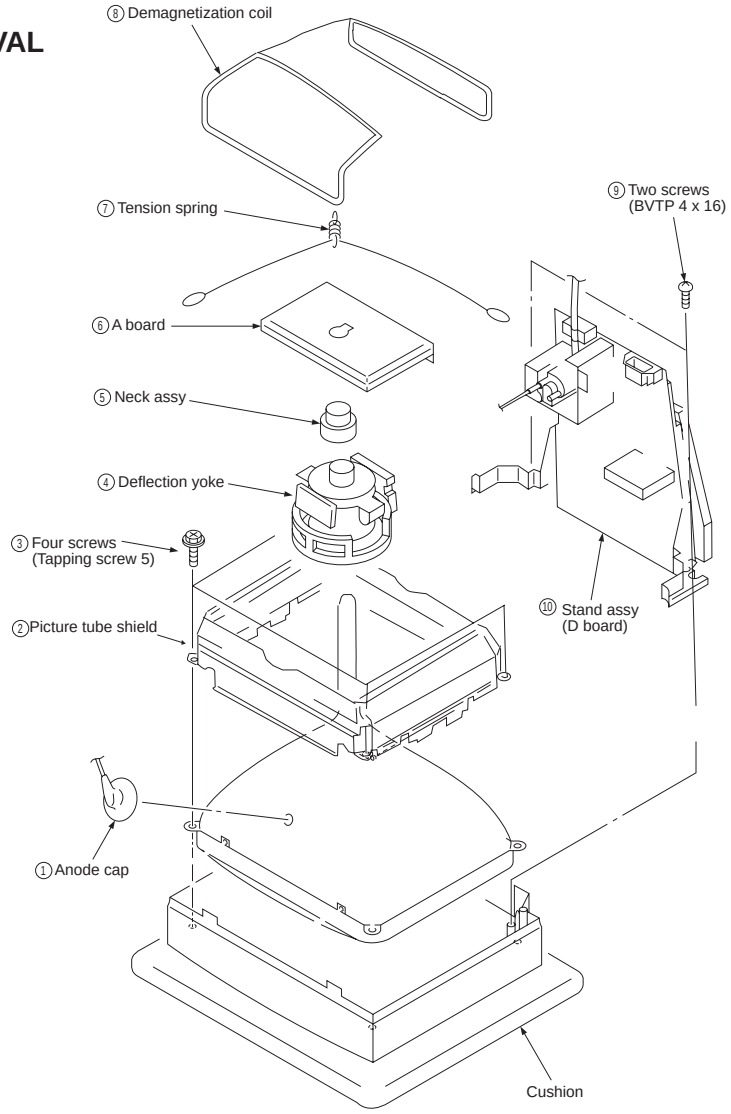
2-2. SERVICE POSITION



2-3. A, D, H, S BOARD REMOVAL



2-4. PICTURE TUBE REMOVAL

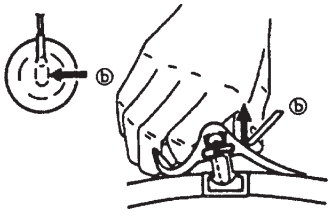


REMOVAL OF THE ANODE-CAP

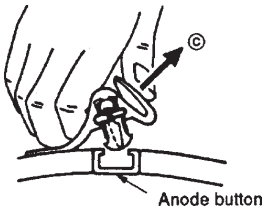
NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

REMOVAL PROCEDURES

① Turn up one side of the rubber cap in the direction indicated by arrow ⓐ.



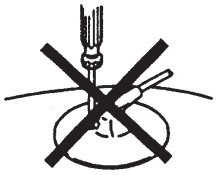
② Use your thumb to pull the rubber cap firmly in the direction indicated by arrow ⓑ.

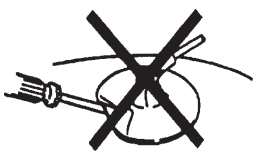


③ When one side of the rubber cap separates from the anode button, the anode-cap can be removed by turning the rubber cap and pulling it in the direction of arrow ⓒ.

HOW TO HANDLE AN ANODE-CAP

① Do not use sharp objects which may cause damage to the surface of the anode-cap.
② Do not squeeze the rubber covering too hard to avoid damaging the anode-cap. A material fitting called a shatter-hook terminal is built into the rubber.
③ Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.





SECTION 3
SAFETY RELATED ADJUSTMENT

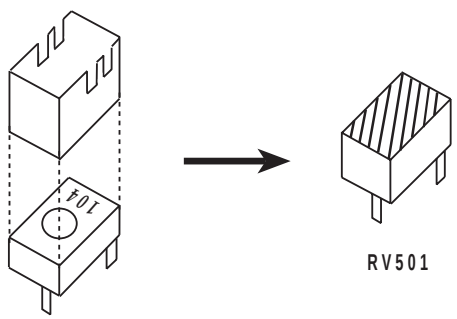
● **When replacing parts shown in the table below, the following operational checks must be performed as a safety precaution against X-ray emissions from the unit.**

D - BOARD
Part Replaced (⋈)
RV501
Part Replaced (◪)
RV501, T501, R545, R546, R548, R550, R547, R549, R552, D517, IC605, IC901, C540, C542, C544, C541, C535, IC501, C558, R567, R564, C555, C553, C554, C561

※ Allow the unit to warm up for one minute prior to checking the following conditions:

a) HV Regulator Check

1) Input white cross hatch signal. (fH = 64 kHz)
2) Minimum CONT and BRT controls.
3) Cut off Screen VR (G2).
4) Input voltage: 120 ± 2 VAC
5) Confirm that the voltage is within the voltage range shown below.
   Standard voltage: 25.0KV ± 0.5KV
6) When replacing components identified by ◪, make sure to recheck the High Voltage.
7) Verify the High Voltage as shown above (25.0KV ± 0.5KV) is within specification. If not, set H. SIZE data at minimum (-127) and then adjust RV501 on "D" Board.
8) After adjusting the High Voltage within specification, put the RV cover on RV501 as shown below and apply sufficient amount of RTV around RV501.



b) HV Hold-Down Check

1) Using an external DC Power supply, apply the voltage shown below between cathode of D517 on "D" Board and GND, and confirm that the HV Hold-Down circuit works. (Raster disappears)
   Apply DC Voltage: 31.4 ± 0.01 VDC

Check Condition

- Input voltage : 120 ± 2 VAC
- Input signal : (fH = 64 kHz), White Cross Hatch
- Controls : CONT (max) & BRT (center)
- B+ Voltage : 185 ± 3.0 VDC

c) Beam Protector Check (Software logic)

1) Using an external DC power supply, apply the voltage 8.8 ± 0.01 VDC between pin (11) of FBT (T501) and GND, and confirm that the voltage across C541 is 3.7 VDC or less.

Check Condition

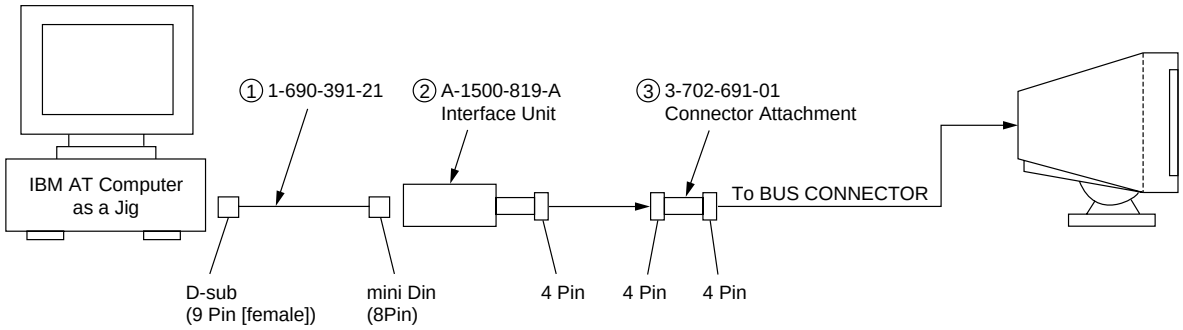
- Input voltage : 120 ± 2 VAC
- Input signal : (fH = 64 kHz), White Cross Hatch
- Controls : CONT (max) & BRT (center)

d) B+ MAX. Check

1) Input white cross hatch (fH = 64 kHz) signal.
2) CONT (max) & BRT (center)
3) Input voltage: 120 ± 2 VAC
   Note: Use NF power supply or make sure that distortion factor is 3% or less.
4) Confirm that the voltage is within the voltage range shown below.
   Standard voltage: 185 ± 3.0 VDC

SECTION 4
ADJUSTMENTS

Connect the communication cable of the connector located on the D board on the monitor. Run the service software and then follow the instructions.



*The parts above (①~③) are necessary for DAS adjustment.

※ Allow a 30 minute warm-up period prior to making the following adjustments:

● Landing Rough Adjustment

1. Enter the full white signal.
2. Adjust the contrast to the maximum.
3. Input full green signal.
4. Moving the DY backward, and adjust coarsely the purity magnet sothat a green raster positions in the center of screen.
5. Moving the DY forward, adjust so that an entire screen becomes pure green.
6. Adjust the tilt of DY, and tighten lightly with a clamp.

● Landing Fine Adjustment

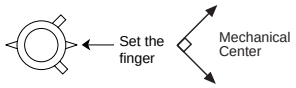
1. Place the set in the Helmholtz coil.
2. Enter a green signal only.
3. Degauss the entire screen with hand-degausser. Then auto-degauss it.
4. Attach a wobbling coil to the specified position of CRT neck.
5. Attach a landing adjuster sensor on the CRT.
6. Using a landing checker, adjust the DY position, purity, tilt of DY.
7. Clamp the DY screw.
   Clamping torque: 22 ± 2 kgcm (2.2± 0.2 N.m)

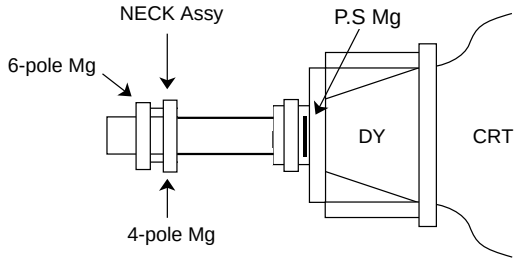
● Convergence Rough Adjustment

1. All digital convergence data should be zero by MCP.
2. Enter the white crosshatch signal.
3. Adjust roughly the horizontal and vertical convergence at four-pole magnet.
4. Adjust roughly HMC and VMC at six-pole magnet.

● Convergence Fine Adjustment

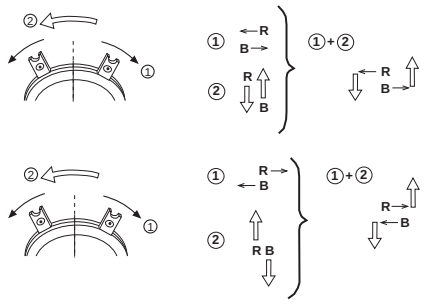
Set DY four-pole magnet to mechanical center before adjustment.
This should be prime mode.





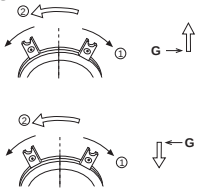
1. Receive R.B. cross-hatch.
2 Adjust H.STAT and V.STAT at four-pole magnet.

4 Pole Magnet



3. Receive White cross-hatch.
4. Adjust HMC and VMC at six-pole magnet.

< 6 Pole Magnet>

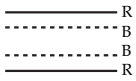


5. Receive R.B. cross-hatch.
6. Adjust H.TILT by swinging the DY neck right and left.
7. Adjust XCV with XCV core.

XCV movement

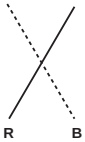
8. Adjust V.TILT with TLV VR.

TLV movement



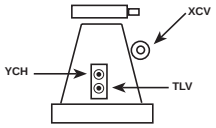
9. Adjust Y.CROSS with YCH VR.

YCH movement



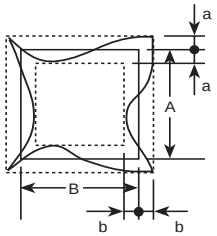
10. Paint lock the four-pole and six-pole Mg.

VR Adjustment on DY



Zero Position NECK Ass'y

● Vertical and Horizontal Position and Size Specification

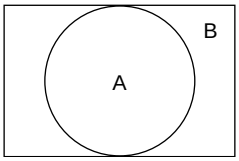


a < 2.5 mm
b < 2.5 mm

A	B
202	270

● Convergence Specification

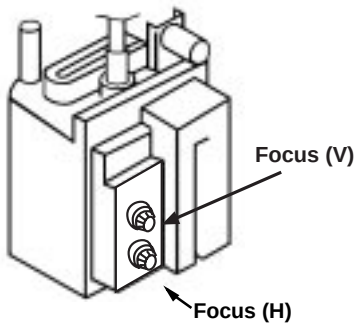
Horizontal and Vertical



A ≦ **0.30mm**
B ≦ **0.30mm**

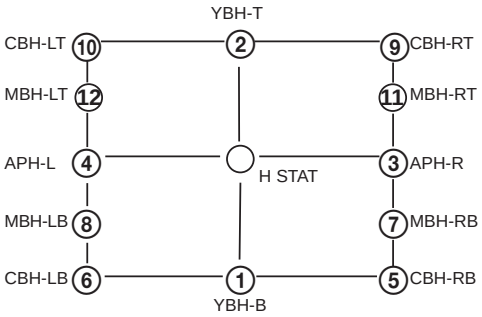
● Focus adjustment

Adjust focus (V) and focus (H) for optimum focus.



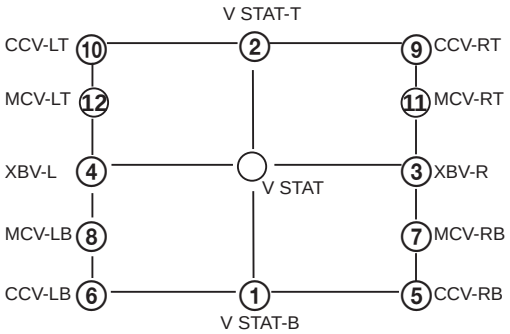
11. Digital Convergence Adjustment

A. Horizontal Convergence



Adjust each misconvergence point in sequence.

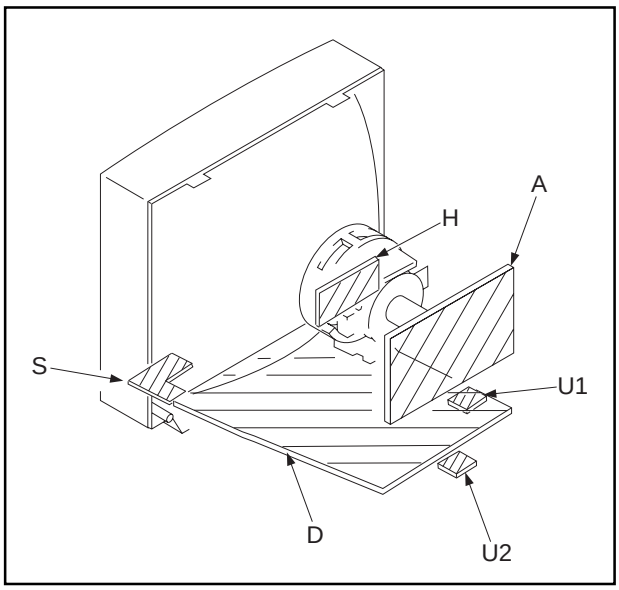
B. Vertical Convergence



Adjust each misconvergence point in sequence.

C. Repeat the procedure of A and B so that the convergence of the whole screen is within the specification.

5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytic.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4 W (CHIP: 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ⊥ : earth-ground.
- ⏚ : earth-chassis.
- The components identified by ⧓ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments by using RV501 (⧓) as indicated. (See page 10Z)

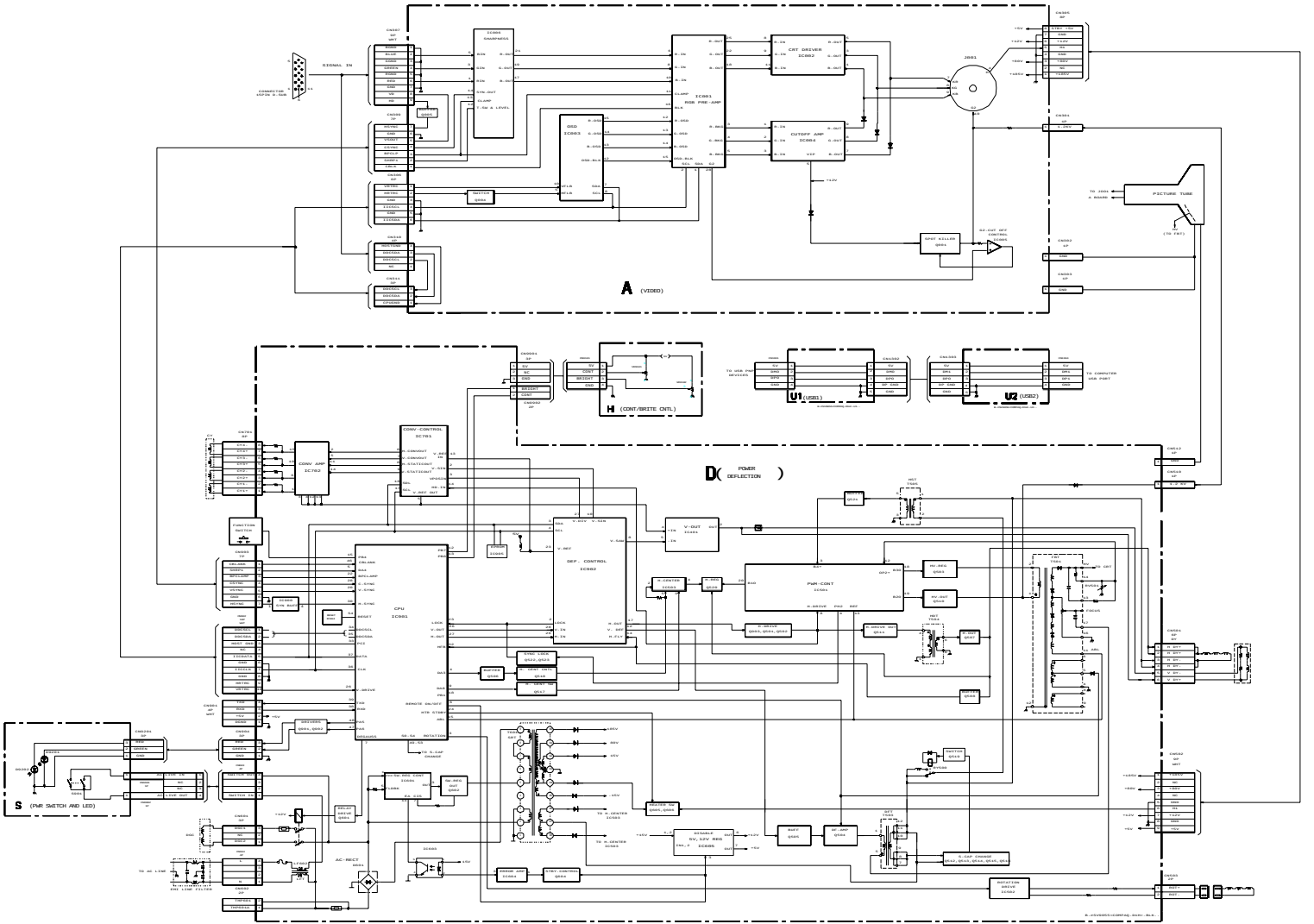
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

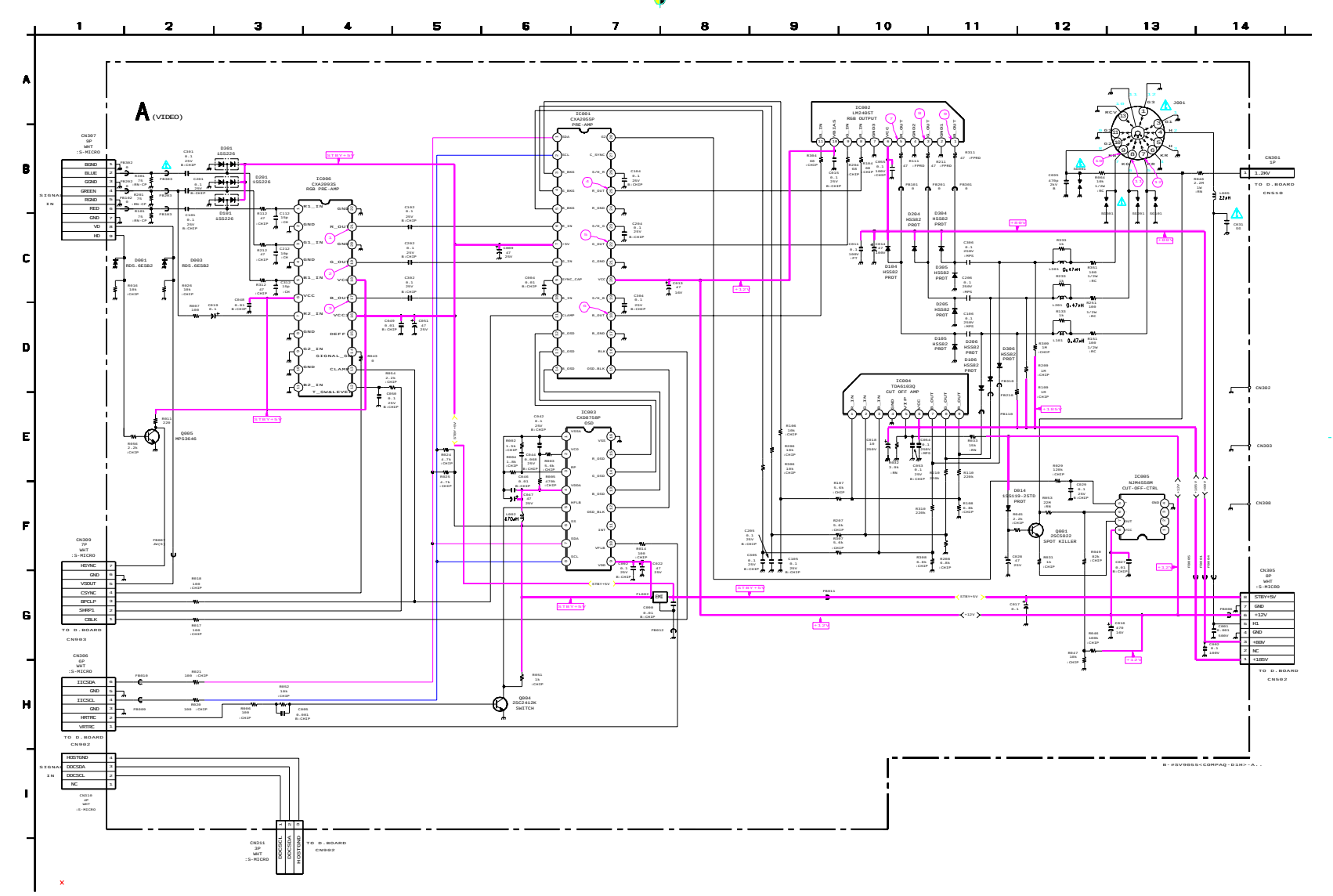
Note: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

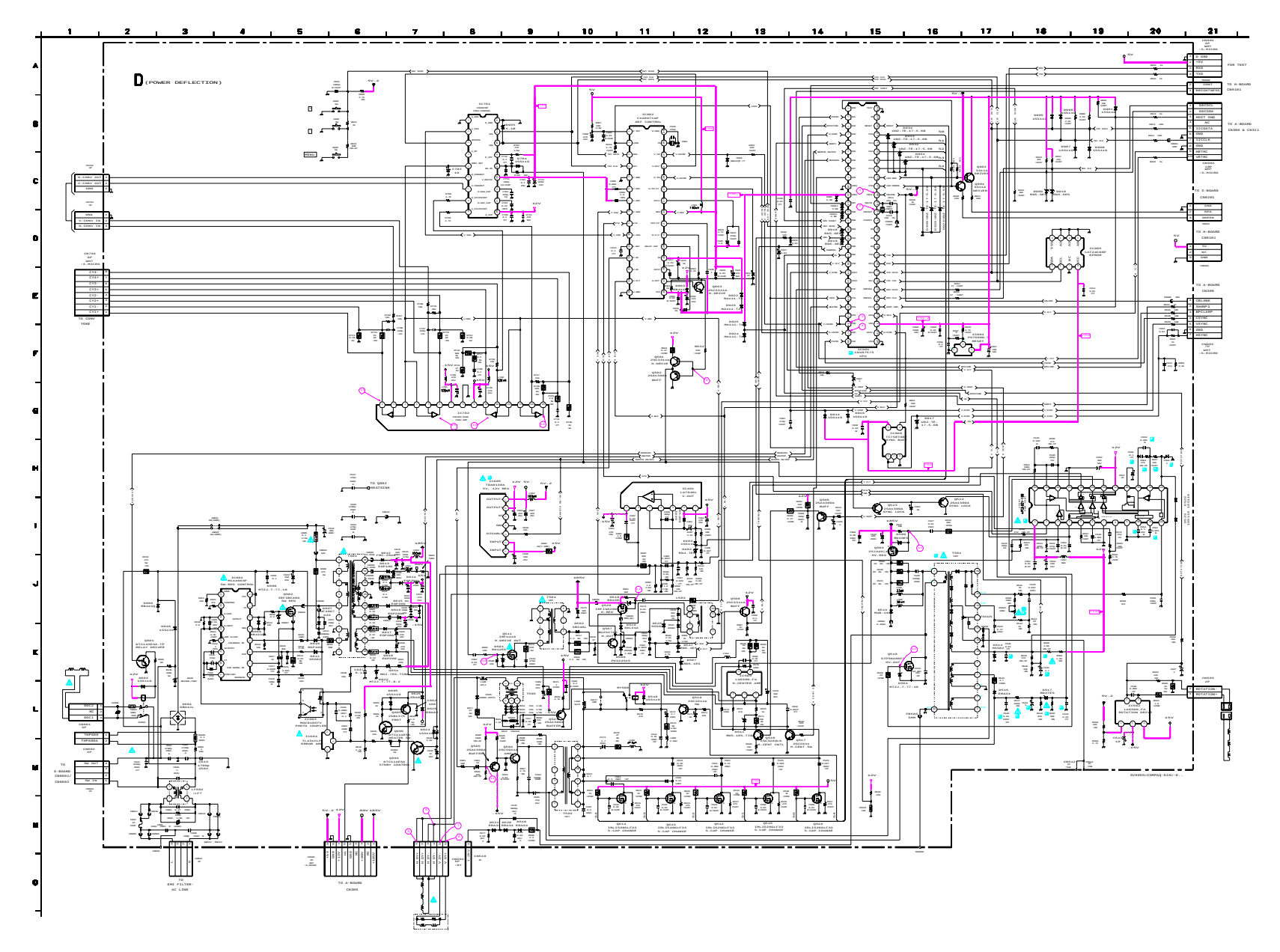
- When replacing parts shown in the table below, be sure to perform the safety related adjustment.

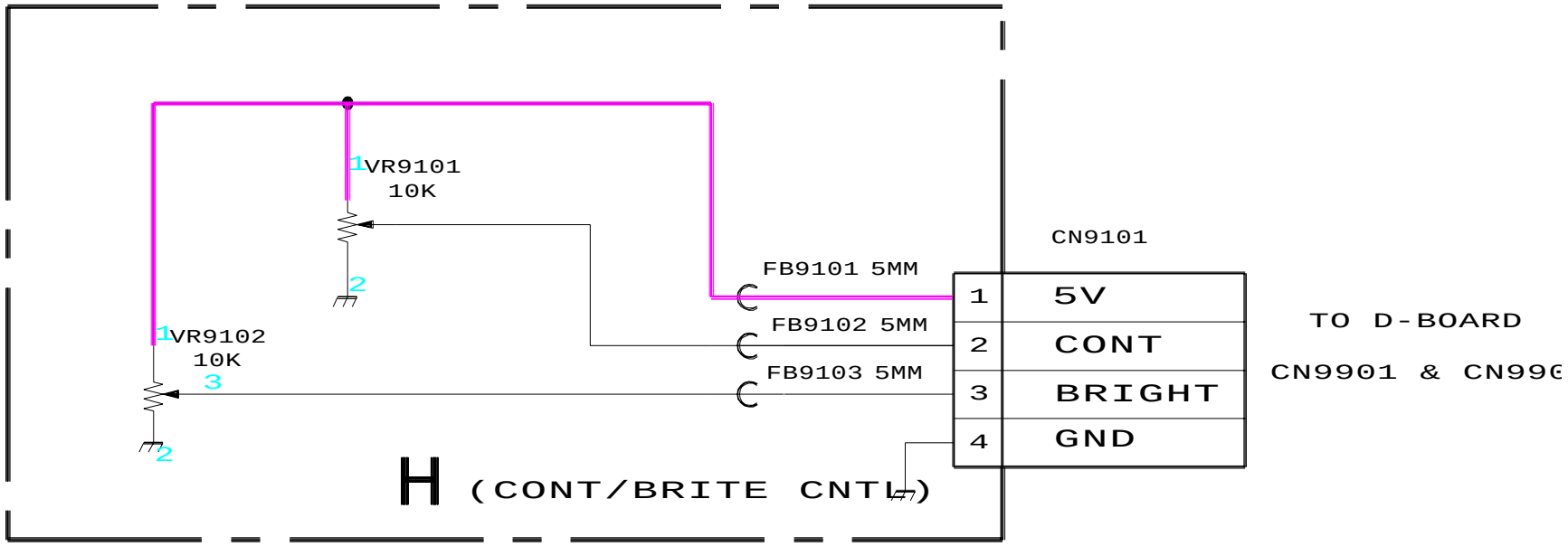
D - BOARD
Part Replaced (⧓)
RV501
Part Replaced (◪)
RV501, T501, R545, R546, R548, R550, R547, R549, R552, D517, IC605, IC901, C540, C542, C544, C541, C535, IC501, C558, R567, R564, C555, C553, C554, C561

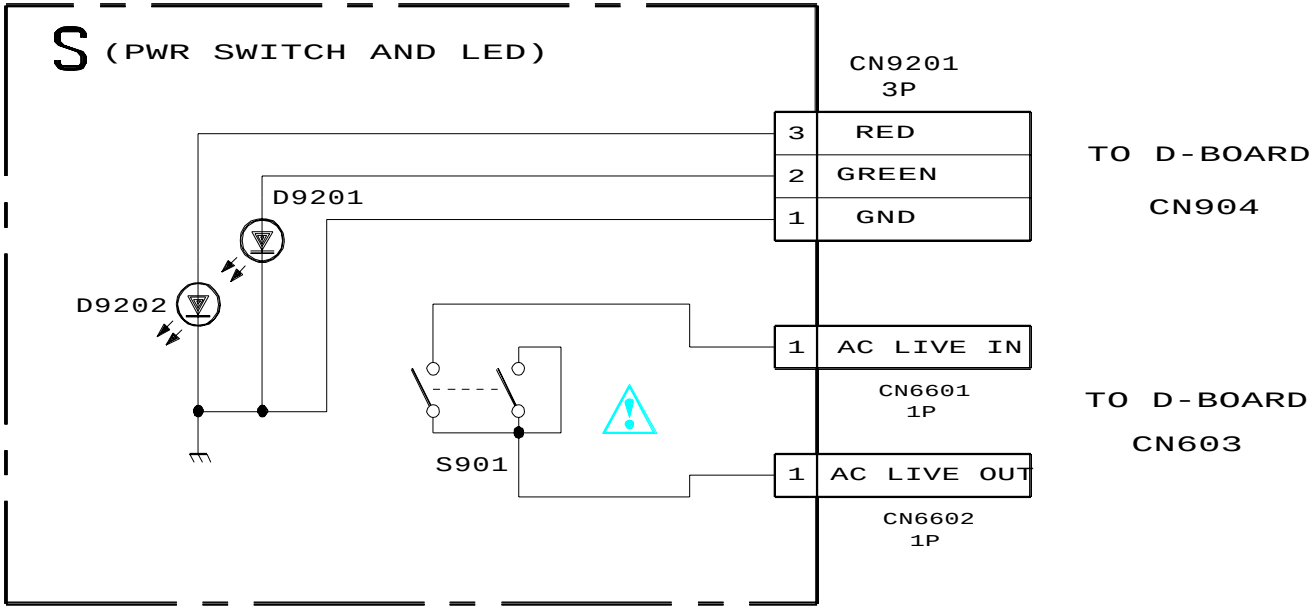
- All voltages are in volts.
- Readings are taken with a 10 MΩ digital multimeter
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- * : Cannot be measured.
- Circled numbers are waveform references.
- ——— : B +bus.
- — — — : B - bus.

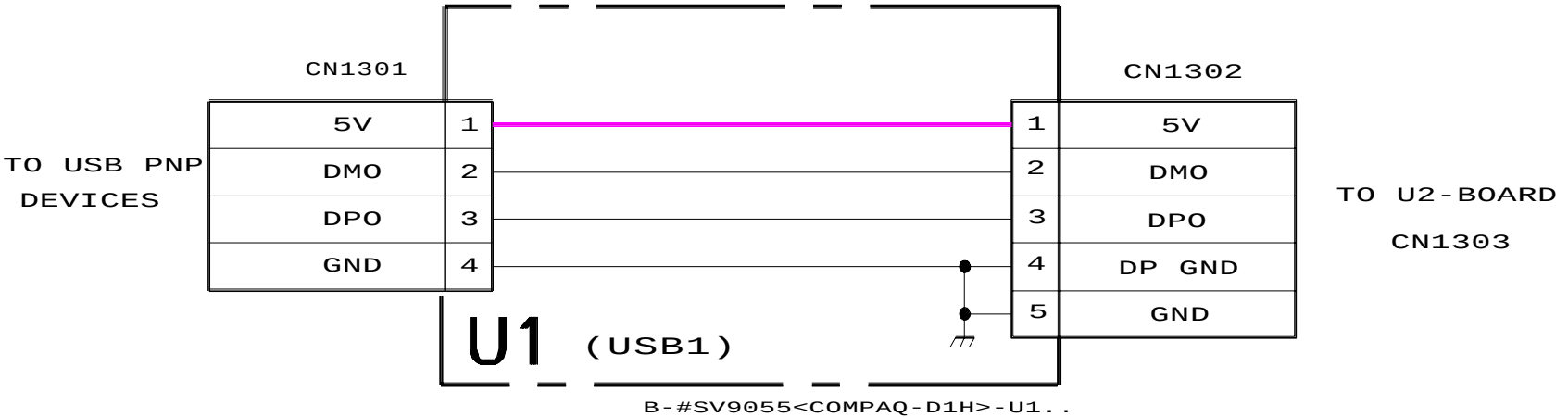

A (VIDEO)
H (CONT/BRITE CNTL)
U1 (USB1)
U2 (USB2)
D (POWER DEFLECTION)
S (PWR SWITCH AND LED)
CONNECTOR FROM M.SUB
SIGNAL IN
CRT DRIVER IC882
CUTOFF AMP IC884
RGB PRE-AMP IC881
OSD IC883
PICTURE TUBE
CONV-CONTROL IC781
CONV AMP IC782
CPU IC881
DEF. CONTROL IC882
PWR CONT IC884
V-OUT IC884
5V,12V REG IC885
AC-RECT
AC LINE FILTER
TO AC LINE
TO COMPUTER USB PORT
TO USB DEVICES

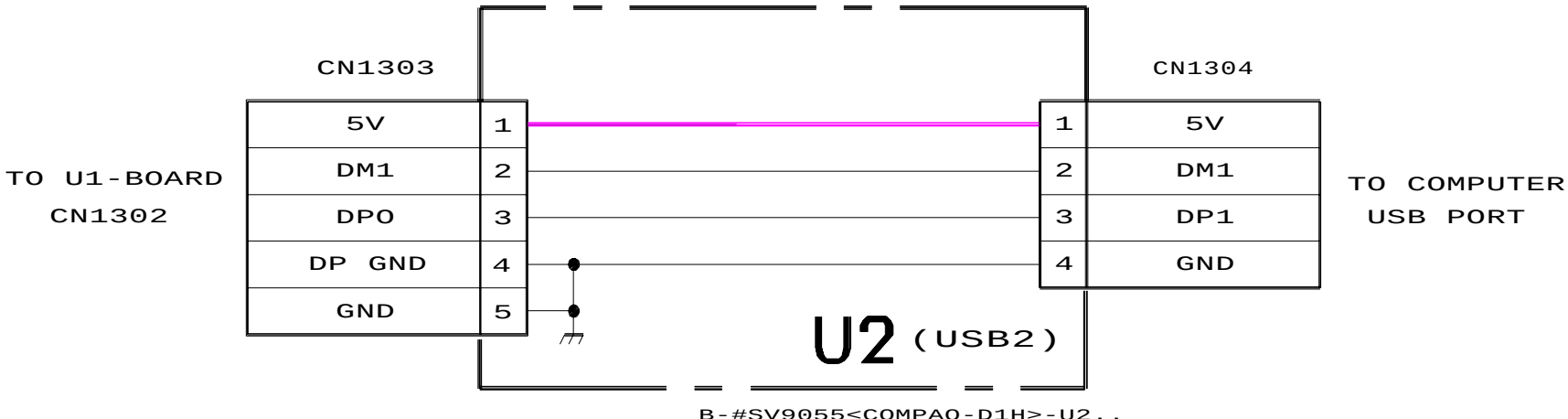

A (VIDEO)
CN307 6P WHT :S-MICRO
SIGNAL IN
BGND
BLUE
GGND
GREEN
RGND
RED
GND
VD
HD
D001 RDS.6ES82
D003 RDS.6ES82
D201 1SS226
D301 1SS226
IC006 CXA2092S RGB PRE-AMP
IC001 CXA2092P PRE-AMP
IC002 LM246ST RGB OUTPUT
IC004 TDA6103Q OUT OFF AMP
IC003 CXD6756P OSD
IC005 NJM4558M CUT-OFF-CTRL
Q005 MPS2646
Q004 2SC2412K SWITCH
Q001 2SC6222 SPOT KILLER
D014 1SS119-25TD PROT
D204 HSS82 PROT
D304 HSS82 PROT
D305 HSS82 PROT
D205 HSS82 PROT
D206 HSS82 PROT
D106 HSS82 PROT
D306 HSS82 PROT
D104 HSS82 PROT
J001 D-SUB 15P
CN309 7P WHT :S-MICRO
HSYNC
GND
VSOUT
CSYNC
BPCLP
SHRP1
CBLK
TO D.BOARD CN903
CN306 6P WHT :S-MICRO
IICSDA
GND
IICSCL
GND
HRTRC
VRTRC
TO D.BOARD CN902
CN310 4P WHT :S-MICRO
HDSTGND
DDCSDA
DDCSCL
NC
SIGNAL IN
CN311 3P WHT :S-MICRO
DDCSCL
DDCSDA
HDSTGND
TO D.BOARD CN902
CN301 1P
3.2MV
TO D.BOARD CN518
CN302
CN303
CN308
CN305 8P WHT :S-MICRO
STBY+5V
GND
+12V
H1
GND
+80V
NC
+185V
TO D.BOARD CN902
B-#3V8BSS<COMPAQ-D1H>-A..


D (POWER DEFLECTION)


VR9101
10K
1
2
VR9102
10K
1
3
2
FB9101 5MM
FB9102 5MM
FB9103 5MM
CN9101
1 5V
2 CONT
3 BRIGHT
4 GND
TO D-BOARD
CN9901 & CN996
H (CONT/BRITE CNTL)
B-#SV9055<COMPAQ-D1H>-H..


S (PWR SWITCH AND LED)
CN9201
3P
3 RED
2 GREEN
1 GND
TO D-BOARD
CN904
D9201
D9202
S901
1 AC LIVE IN
CN6601
1P
TO D-BOARD
CN603
1 AC LIVE OUT
CN6602
1P


CN1301
5V
DMO
DPO
GND
1
2
3
4
TO USB PNP DEVICES
CN1302
1
2
3
4
5
5V
DMO
DPO
DP GND
GND
TO U2-BOARD
CN1303
U1 (USB1)
B-#SV9055<COMPAQ-D1H>-U1..


CN1303
5V
DM1
DPO
DP GND
GND
1
2
3
4
5
TO U1-BOARD
CN1302
CN1304
1
2
3
4
5V
DM1
DP1
GND
TO COMPUTER
USB PORT
U2 (USB2)
B-#SV9055<COMPAQ-D1H>-U2..

SECTION 6
EXPLODED VIEWS

• Items with no part number and no description are not stocked because they are seldom required for routine service.

• The component parts of an assembly are indicated by the reference numbers in the remarks column.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note:

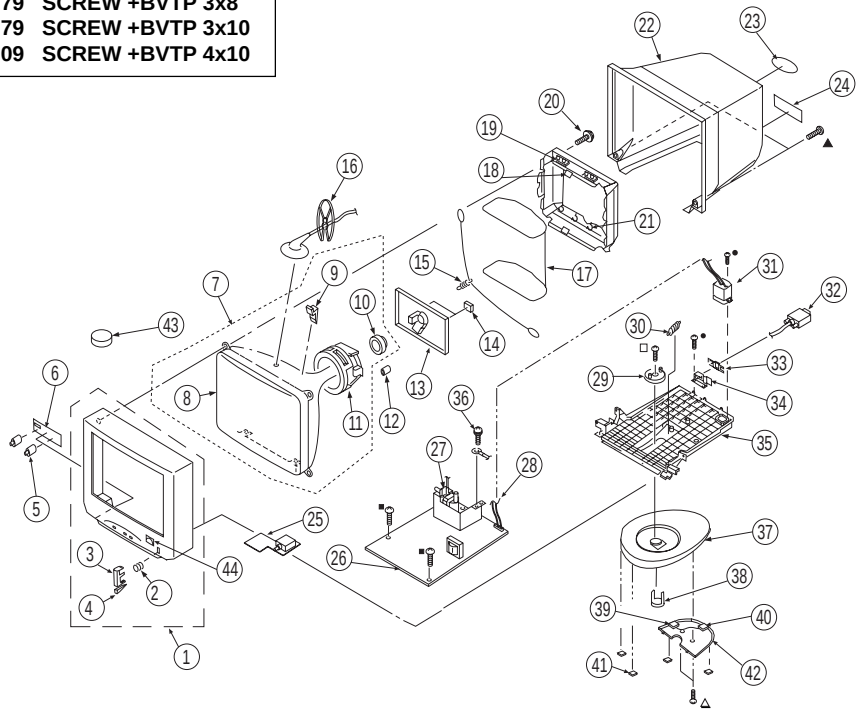
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-1. CHASSIS (US/CANADIAN, AEP, NH, SH, AUS models made in US)

●	7-685-648-79	SCREW +BVTP 3x12
△	7-685-663-71	SCREW +BVTP 4x16
□	7-685-646-79	SCREW +BVTP 3x8
■	7-685-647-79	SCREW +BVTP 3x10
▲	7-685-882-09	SCREW +BVTP 4x10



REF.NO.	PART NO.	DESCRIPTION	REMARK
1 *	X-4035-359-1	BEZEL ASSY	2-4
2	4-063-224-01	SPRING, COMPRESSION	
3	4-063-220-01	BUTTON, POWER	
4	4-063-222-01	GUIDE, LIGHT	
5	4-063-212-01	DIAL, ROTARY	
6 *	A-1372-451-A	H BOARD, MOUNTED	
7 ⚠	8-738-733-83	ITC ASSY, 17FRFM-R3 (US/CND, AEP, NH)	8-11
7 ⚠	8-738-728-81	ITC ASSY, 17FRFM-RS2 (AUS, SH)	8-11
8 ⚠	8-738-726-05	CRT, 17FRFM (M41LKN50X) (US/CND, AEP, NH)	
8 ⚠	8-738-728-05	CRT, 17FRFM (M41LKN15X) (AUS, SH)	
9	4-040-897-01	SPACER, DY	
10 ⚠	1-452-923-21	NECK ASSY	
11 ⚠	8-451-490-21	DY Y17FRJ3-M	
12	1-500-386-11	FILTER CLAMP (FERRITE CORE)	
13 *	A-1298-503-A	A BOARD, COMPLETE	
14 *	4-061-571-01	CUSHION (A)	
15 *	4-061-573-01	SPRING, TENSION	
16	3-704-372-31	HOLDER, HV CABLE	
17 ⚠	1-416-282-21	COIL, DEMAGNETIC	
18	4-041-021-02	HOLDER, DGC	
19 *	4-056-260-01	DGC, SPACER	
20	4-365-808-01	SCREW (5), TAPPING	
21 *	4-041-758-02	HOLDER, DGC	
22	4-063-225-01	CABINET	

REF.NO.	PART NO.	DESCRIPTION	REMARK
23 *	4-063-226-01	BADGE, COMPAQ	
24	4-063-219-01	LABEL, INFORMATION	
25 *	A-1390-837-A	S BOARD, MOUNTED	
26 *	A-1346-730-A	D BOARD, COMPLETE	
27 ⚠	1-453-241-11	TRANSFORMER ASSY, FLYBACK (NX-4400//X4L4)	
28 *	1-900-802-2	CONNECTOR ASSY. 4P	
29	4-045-121-01	STOPPER (A), STAND	
30	4-046-901-01	SPRING, TENSION	
31	1-784-638-11	INLET, AC	
32 *	1-783-562-11	CABLE ASSY VIDEO (15P D-SUB)	
33 *	4-045-131-01	STOPPER, CABLE	
34 *	4-063-213-01	BRACKET, CABLE	
35 *	X-4035-361-1	BOTTOM COVER ASSY	
36	4-389-025-01	SCREW (M4x8)(EXT.TOOTHWASHER)	
37	4-063-237-01	BASE, STAND UPPER	
38	4-048-148-01	STOPPER (B)	
39 *	A-1373-668-A	U1 BOARD, MOUNTED	
40 *	A-1373-669-A	U2 BOARD, MOUNTED	
41 *	4-060-533-01	CUSHION	
42	4-063-238-01	BASE, STAND LOWER	
43	1-452-032-00	MAGNET, DISC	
44	4-045-471-01	LABEL, ENERGY STAR	

SECTION 6
EXPLODED VIEWS

• Items with no part number and no description are not stocked because they are seldom required for routine service.

• The component parts of an assembly are indicated by the reference numbers in the remarks column.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note:

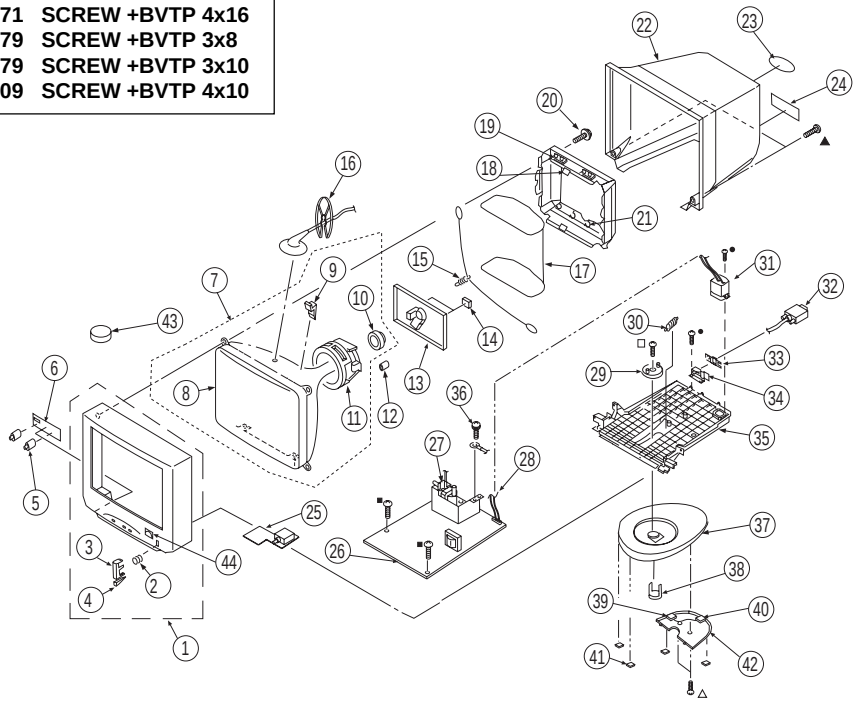
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-2. CHASSIS (AEP, UK models made in UK)

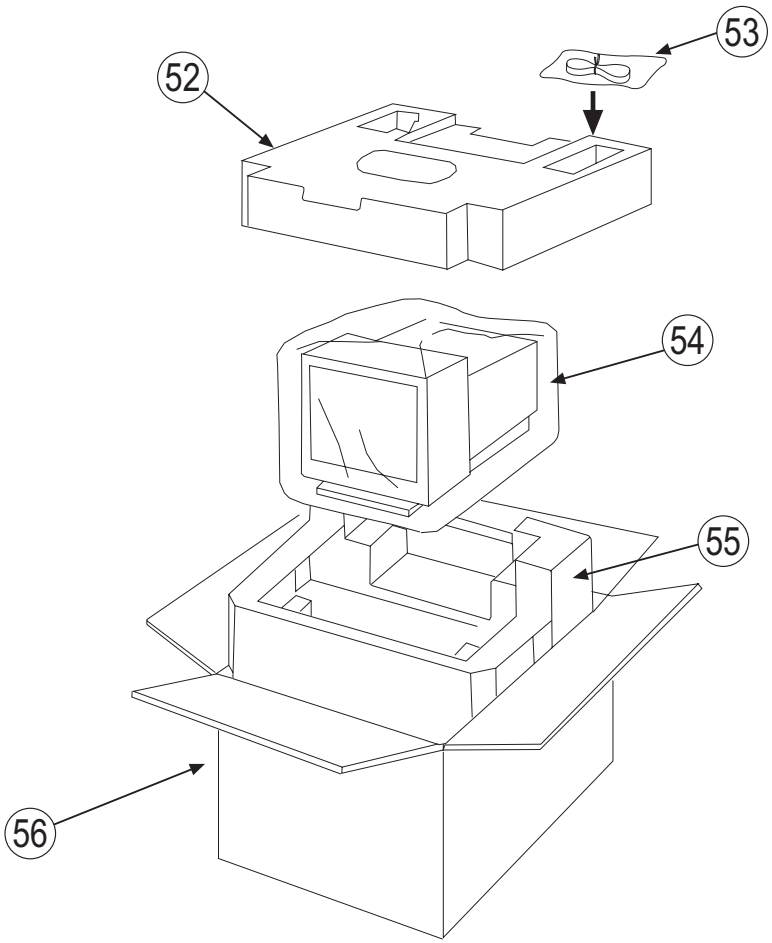
●	7-685-648-79	SCREW +BVTP 3x12
△	7-685-663-71	SCREW +BVTP 4x16
□	7-685-646-79	SCREW +BVTP 3x8
■	7-685-647-79	SCREW +BVTP 3x10
▲	7-685-882-09	SCREW +BVTP 4x10



REF.NO.	PART NO.	DESCRIPTION	REMARK
1 *	X-4035-526-1	BEZEL ASSY	2-4
2	4-063-224-01	SPRING, COMPRESSION	
3	4-064-196-01	BUTTON, POWER	
4 *	4-064-198-01	GUIDE, LIGHT	
5	4-064-219-01	DIAL, ROTARY	
6 *	A-1372-473-A	H BOARD, MOUNTED	
7 ⚠	8-738-733-83	ITC ASSY, 17FRFM-R3	8-11
8 ⚠	8-738-726-05	CRT, 17FRFM (M41LKN50X)	
9	4-040-897-01	SPACER, DY	
10 ⚠	1-452-923-21	NECK ASSY	
11 ⚠	8-451-490-11	DY Y17FRJ3-M	
12	1-500-386-11	FILTER CLAMP (FERRITE CORE)	
13 *	A-1298-545-A	A BOARD, COMPLETE	
14 *	4-062-321-01	CUSHION (A)	
15 *	4-047-316-01	SPRING, TENSION	
16	3-704-372-31	HOLDER, HV CABLE	
17 ⚠	1-416-282-21	COIL, DEMAGNETIC	
18	4-041-021-02	HOLDER, DGC	
19 *	4-056-260-01	DGC, SPACER	
20	4-365-808-01	SCREW (5), TAPPING	
21 *	4-041-758-02	HOLDER, DGC	
22	4-064-200-01	CABINET	

REF.NO.	PART NO.	DESCRIPTION	REMARK
23 *	4-064-201-01	BADGE, COMPAQ	
24	4-064-206-01	LABEL, INFORMATION	
25 *	A-1390-846-A	S BOARD, MOUNTED	
26 *	A-1346-743-A	D BOARD, COMPLETE	
27 ⚠	1-453-241-11	TRANSFORMER ASSY, FLYBACK (NX-4400//X4L4)	
28	1-900-802-21	CONNECTOR ASSY. 4P	
29	4-045-121-01	STOPPER (A), STAND	
30	4-046-901-01	SPRING, TENSION	
31	1-784-638-11	INLET, AC	
32 *	1-783-562-11	CABLE ASSY VIDEO (15P D-SUB)	
33 *	4-045-131-11	STOPPER, CABLE	
34 *	4-063-213-01	BRACKET, CABLE	
35 *	X-4035-528-1	BOTTOM COVER ASSY	
36	4-389-025-01	SCREW (M4x8)(EXT.TOOTHWASHER)	
37	4-064-210-01	BASE, STAND UPPER	
38	4-048-148-01	STOPPER (B)	
39 *	A-1394-885-A	U1 BOARD, MOUNTED	
40 *	A-1394-886-A	U2 BOARD, MOUNTED	
41 *	4-060-533-01	CUSHION	
42	4-064-211-01	BASE, STAND LOWER	
43	1-452-032-00	MAGNET, DISC	
44	4-045-471-01	LABEL, ENERGY STAR	

6-3. PACKING MATERIALS



REF.NO.	PART NO.	DESCRIPTION	REMARK
52	4-063-231-01	CUSHION, UPPER (US/CND, AEP, NH, SH, AUS models made in US)	
52	4-064-213-01	CUSHION, UPPER (AEP, UK models made in UK)	
53 ⚠	1-776-027-41	CORD SET, POWER (US/CND models made in US)	
53 ⚠	1-558-481-11	CORD SET, POWER (AUS model made in US)	
53 ⚠	1-765-719-11	CORD SET, POWER (AEP models made in US and UK))	
54	4-041-927-11	BAG, POLYETHYLENE	
55	4-063-232-01	CUSHION, LOWER (US/CND, AEP, NH, SH, AUS models made in US)	
55	4-064-214-01	CUSHION, LOWER (AEP, UK models made in UK)	
56	4-063-233-01	INDIVIDUAL CARTON (US/CND, AEP, NH, SH, AUS models made in US)	
56	4-064-215-01	INDIVIDUAL CARTON (AEP, UK models made in UK)	

A

SECTION 7
ELECTRICAL PARTS LIST

Note:

The components Identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque ⚠ sont critiques pout la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- MF = µF

INDUCTORS
UH = µH
MMH = MH

When indicating parts by reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION			REMARK
A					
*	A-1298-503-B	A BOARD, COMPLETE			
	(US/CANADIAN, AEP, NH, SH, AUS models made in US)				
*	A-1298-545-B	A BOARD, COMPLETE			
	(AEP, UK models made in UK)				
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	CAPACITOR				
C001	1-162-318-11	CERAMIC	0.001MF	10%	500V
C002	1-106-220-00	MYLAR	0.1MF	10%	100V
C004	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C005	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C009	1-107-888-11	ELECT	47MF	20%	25V
C011	1-106-220-00	MYLAR	0.1MF	10%	100V
C013	1-107-909-11	ELECT	47MF	20%	16V
C014	1-107-932-11	ELECT	47MF	20%	100V
C015	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C016	1-128-528-11	ELECT	470MF	20%	16V
C017	1-130-495-00	FILM	0.1MF	5%	50V
C018	1-107-961-91	ELECT	10MF	20%	250V
C019	1-130-495-00	FILM	0.1MF	5%	50V
C022	1-104-664-11	ELECT	47MF	20%	25V
C027	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C028	1-104-664-11	ELECT	47MF	20%	25V
C029	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C031 ⚠	1-517-499-21	GAP, SPARK			
C035	1-162-134-11	CERAMIC	470PF	10%	2KV
C042	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C044	1-164-344-11	CERAMIC CHIP	0.068MF	10%	25V
C046	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C047	1-104-664-11	ELECT	47MF	20%	25V
C048	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C049	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C050	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C051	1-104-664-11	ELECT	47MF	20%	25V
C053	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C054	1-137-528-11	FILM	0.1MF	10%	250V
C055	1-104-503-12	CERAMIC CHIP	0.1MF	10%	100V
C090	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C092	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C093	1-163-251-11	CERAMIC	100PF	5%	50V
C101	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C102	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C104	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C105	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C106	1-137-528-11	FILM	0.1MF	10%	250V
C112	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C201	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C202	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C204	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C205	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C206	1-137-528-11	FILM	0.1MF	10%	250V
C212	1-163-227-11	CERAMIC CHIP	10PF	5%	50V
C301	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C302	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C304	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C306	1-137-528-11	FILM	0.1MF	10%	250V
C312	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
	CONNECTOR				
CN301	1-506-108-41	PIN, CONNECTOR (TERMINAL PIN)			
CN302	1-695-915-11	TAB (CONTACT)			
CN303	1-695-915-11	TAB (CONTACT)			
CN305	1-564-511-11	PLUG, CONNECTOR 8P			
CN306 *	1-564-509-11	PLUG, CONNECTOR 6P			
CN307 *	1-564-512-11	PLUG, CONNECTOR 9P			
CN308	1-695-915-11	TAB (CONTACT)			
CN309 *	1-564-510-11	PLUG, CONNECTOR 7P			
CN310 *	1-564-507-11	PLUG, CONNECTOR 4P			
CN311 *	1-564-506-11	PLUG, CONNECTOR 3P			

Note: The components Identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifies per un trame et une marque ⚠ sont critiques pout la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
		DIODE	
D001	8-719-109-89	DIODE RD5.6ESB2	
D003	8-719-109-89	DIODE RD5.6ESB2	
D014	8-719-911-19	DIODE 1SS119-25	
D101	8-719-800-76	DIODE 1SS226	
D104	8-719-970-83	DIODE HSS82	
D105	8-719-970-83	DIODE HSS82	
D106	8-719-970-83	DIODE HSS82	
D201	8-719-800-76	DIODE 1SS226	
D204	8-719-970-83	DIODE HSS82	
D205	8-719-970-83	DIODE HSS82	
D206	8-719-970-83	DIODE HSS82	
D301	8-719-800-76	DIODE 1SS226	
D304	8-719-970-83	DIODE HSS82	
D305	8-719-970-83	DIODE HSS82	
D306	8-719-970-83	DIODE HSS82	
		FERRITE BEAD	
FB001	1-412-911-11	FERRITE	
FB004	1-412-911-11	FERRITE	
FB005	1-412-911-11	FERRITE	
FB006	1-412-911-11	FERRITE	
FB009	1-412-911-11	FERRITE	
FB010	1-412-911-11	FERRITE	
FB011	1-412-911-11	FERRITE	
FB012	1-412-911-11	FERRITE	
FB101	1-216-295-91	SHORT	
FB102	1-216-295-91	SHORT	
FB103 ⚠	1-500-104-21	FERRITE	
FB110	1-412-911-11	FERRITE	
FB201	1-216-295-91	SHORT	
FB202	1-216-295-91	SHORT	
FB203 ⚠	1-500-104-21	FERRITE	
FB210	1-412-911-11	FERRITE	
FB301	1-216-295-91	SHORT	
FB302	1-216-295-91	SHORT	
FB303 ⚠	1-500-104-21	FERRITE	
FB310	1-412-911-11	FERRITE	
		FILTER	
FL002	1-412-911-11	FERRITE	
		IC	
IC001	8-752-076-89	IC CXA2055P	
IC002	8-759-435-33	IC LM2405T	
IC003	8-759-530-14	IC CXD8758P	
IC004	8-759-434-40	IC TDA6103Q/N3,112	
IC005	8-759-100-96	IC UPC4558G2	
IC006	8-752-082-65	IC CXA2093S	
		JACK	
J001⚠	1-251-598-11	SOCKET, CRT	
		COIL	
L002	1-410-682-31	INDUCTOR	470UH
L005	1-412-529-11	INDUCTOR	22UH
L101	1-410-750-41	INDUCTOR	0.47UH
L102	1-216-296-91	SHORT	
L201	1-410-750-41	INDUCTOR	0.47UH
L301	1-410-750-41	INDUCTOR	0.47UH
		TRANSISTOR	
Q001	8-729-032-61	TRANSISTOR 2SC5022-02	
Q004	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q005	8-729-045-08	TRANSISTOR NPS3646	
		RESISTOR	
R002	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R003	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R004	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R005	1-216-113-00	RES,CHIP	470K 5% 1/10W
R006	1-216-025-91	RES,CHIP	100 5% 1/10W
R007	1-216-025-91	RES,CHIP	100 5% 1/10W
R011	1-216-033-00	RES, CHIP	220 5% 1/10W
R014	1-216-025-91	RES,CHIP	100 5% 1/10W
R016	1-216-073-00	RES,CHIP	10K 5% 1/10W
R017	1-216-025-91	RES,CHIP	100 5% 1/10W
R018	1-216-025-91	RES,CHIP	100 5% 1/10W
R020	1-216-025-91	RES,CHIP	100 5% 1/10W
R021	1-216-025-91	RES,CHIP	100 5% 1/10W
R024	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R025	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R026	1-216-073-00	RES,CHIP	10K 5% 1/10W
R029	1-216-099-00	RES,CHIP	120K 5% 1/10W
R031	1-216-049-91	RES,CHIP	1K 5% 1/10W
R032	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R033	1-216-077-00	RES,CHIP	15K 5% 1/10W

A D

Note: The components Identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifies per un trame et une marque ⚠ sont critiques pout la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION			REMARK
R043	1-216-295-91	SHORT	0		
R045	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R046	1-216-097-91	RES,CHIP	100K	5%	1/10W
R047	1-216-073-00	RES,CHIP	10K	5%	1/10W
R048	1-211-885-21	METAL	2.2M	5%	1W
R049	1-216-697-91	METAL CHIP	82K	0.50%	1/10W
R051	1-216-049-91	RES,CHIP	1K	5%	1/10W
R052	1-216-073-00	RES,CHIP	10K	5%	1/10W
R053	1-219-621-91	METAL	22M	10%	1/4W
R054	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R055	1-247-815-91	CARBON	220	5%	1/4W
R056	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R064	1-202-830-00	SOLID	10K	20%	1/2W
R101	1-215-394-00	METAL	75	1%	1/4W
R104	1-216-021-00	RES,CHIP	68	5%	1/10W
R106	1-216-073-00	RES,CHIP	10K	5%	1/10W
R107	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R108	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R109	1-216-121-91	RES,CHIP	1M	5%	1/10W
R110	1-215-477-00	METAL	220K	1%	1/4W
R111	1-249-401-11	CARBON	47	5%	1/4W F
R112	1-216-017-91	RES,CHIP	47	5%	1/10W
R133	1-249-417-11	CARBON	1K	5%	1/4W
R151	1-202-549-00	SOLID	100	20%	1/2W
R201	1-215-394-00	METAL	75	1%	1/4W
R204	1-216-021-00	RES,CHIP	68	5%	1/10W
R206	1-216-073-00	RES,CHIP	10K	5%	1/10W
R207	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R208	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R209	1-216-121-91	RES,CHIP	1M	5%	1/10W
R210	1-215-477-00	METAL	220K	1%	1/4W
R211	1-249-401-11	CARBON	47	5%	1/4W F
R212	1-216-017-91	RES,CHIP	47	5%	1/10W
R233	1-249-417-11	CARBON	1K	5%	1/4W
R251	1-202-549-00	SOLID	100	20%	1/2W
R301	1-215-394-00	METAL	75	1%	1/4W
R304	1-216-021-00	RES,CHIP	68	5%	1/10W
R306	1-216-073-00	RES,CHIP	10K	5%	1/10W
R307	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R308	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R309	1-216-121-91	RES,CHIP	1M	5%	1/10W
R310	1-215-477-00	METAL	220K	1%	1/4W
R311	1-249-401-11	CARBON	47	5%	1/4W F
R312	1-216-017-91	RES,CHIP	47	5%	1/10W
R333	1-249-417-11	CARBON	1K	5%	1/4W
R351	1-202-549-00	SOLID	100	20%	1/2W

REF.NO.	PART NO.	DESCRIPTION	REMARK
	SPARK GAP		
SG001⚠	1-519-422-11	GAP, SPARK	
SG101⚠	1-517-499-21	GAP, SPARK	
SG201⚠	1-517-499-21	GAP, SPARK	
SG301⚠	1-517-499-21	GAP, SPARK	

D

* **A-1346-730-A D BOARD, COMPLETE**
(US/CANADIAN, AEP, NH, SH, AUS models made in US)

* **A-1346-743-A D BOARD, COMPLETE**
(AEP, UK models made in UK)

1-533-223-11 CLIP, FUSE
1-564-506-11 PLUG, CONNECTOR 3P
1-691-960-11 PIN, CONNECTOR (PC BOARD) 3P
2-371-561-00 BUSHING (P), INSULATING
4-060-555-01 SHEET, INSULATOR
4-382-854-01 SCREW (M3X8), P, SW (+)
4-382-854-11 SCREW (M3X10), P, SW (+)
4-382-854-21 SCREW (M3X14), P, SW (+)

CAPACITOR

C401	1-107-914-11	ELECT	1000MF	20%	25V
C402	1-106-228-00	MYLAR	0.22MF	10%	100V
C403	1-126-969-11	ELECT	220MF	20%	50V
C404	1-126-941-11	ELECT	470MF	20%	25V
C405	1-137-374-11	FILM	0.047MF	5%	50V
C406	1-137-368-11	FILM	0.0047MF	5%	50V
C407	1-137-372-11	FILM	0.022MF	5%	50V
C408	1-102-973-00	CERAMIC	100PF	5%	50V
C501	1-126-964-11	ELECT	10MF	20%	50V
C502	1-137-370-11	FILM	0.01MF	5%	50V
C503	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C504	1-164-645-11	CERAMIC	1000PF	10%	500V
C505	1-109-879-11	CERAMIC	22PF	5%	2KV
C506	1-126-960-11	ELECT	1MF	20%	50V
C507	1-117-964-11	FILM	0.3MF	5%	400V
C508	1-104-665-11	ELECT	100MF	20%	25V
C509	1-162-117-00	CERAMIC	100PF	10%	500V
C510	1-102-228-00	CERAMIC	470PF	10%	500V
C511	1-119-862-11	FILM	0.3MF	5%	200V
C512	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C513	1-126-964-11	ELECT	10MF	20%	50V
C514	1-119-861-11	FILM	0.91MF	5%	200V
C515	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C516	1-117-206-21	FILM	0.36MF	5%	250V
C517	1-137-370-11	FILM	0.01MF	5%	50V

Note: The components Identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifies per un trame et une marque ⚠ sont critiques pout la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION			REMARK
C518	1-117-954-11	FILM	4300PF	3%	1.8KV
C519	1-136-538-11	FILM	0.001MF	3%	2KV
C520	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C521	1-107-444-11	CERAMIC	100PF	5%	2KV
C522	1-136-481-11	MYLAR	0.0022MF	10%	100V
C523	1-115-511-11	FILM	0.12MF	5%	200V
C524	1-107-955-11	ELECT	100MF	20%	200V
C525	1-119-860-11	FILM	0.082MF	5%	200V
C526	1-164-646-11	CERAMIC	2200PF	10%	500V
C527	1-117-879-91	CAPACITOR	0.01MF	10%	250V
C528	1-115-349-51	CERAMIC	0.01MF		2KV
C529	1-136-060-00	FILM	0.047MF	5%	400V
C530	1-115-511-11	FILM	0.12MF	5%	200V
C531	1-115-509-11	FILM	0.068MF	5%	250V
C532	1-137-426-11	FILM	0.47MF	10%	100V
C535	1-137-370-11	FILM	0.01MF	5%	50V
C536	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C538	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C539	1-137-418-11	FILM	0.022MF	10%	100V
C540	1-136-203-11	FILM	10000PF	5%	630V
C541	1-126-963-11	ELECT	4.7MF	20%	50V
C542	1-126-964-11	ELECT	10MF	20%	50V
C543	1-102-973-00	CERAMIC	100PF	5%	50V
C544	1-137-370-11	FILM	0.01MF	5%	50V
C545	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C546	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C547	1-126-960-11	ELECT	1MF	20%	50V
C548	1-137-364-11	FILM	0.001MF	5%	50V
C549	1-137-375-11	FILM	0.068MF	5%	50V
C550	1-126-933-11	ELECT	100MF	20%	16V
C551	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C552	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C553	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C554	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C555	1-130-495-00	FILM	0.1MF	5%	50V
C556	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C557	1-126-965-11	ELECT	22MF	20%	50V
C558	1-126-960-11	ELECT	1MF	20%	50V
C559	1-137-368-11	FILM	0.0047MF	5%	50V
C560	1-117-206-21	FILM	0.36MF	5%	250V
C561	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C562	1-126-933-11	ELECT	100MF	20%	16V
C563	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C570	1-104-665-11	ELECT	100MF	20%	25V
C571	1-126-964-11	ELECT	10MF	20%	50V
C572	1-107-651-11	ELECT	4.7MF	20%	250V
C573	1-107-651-11	ELECT	4.7MF	20%	250V
C574	1-117-879-91	CAPACITOR	0.01MF	10%	250V
C575	1-107-955-11	ELECT	100MF	20%	200V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C576	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C577	1-115-349-51	CERAMIC	0.01MF		2KV
C578	1-161-754-00	CERAMIC	0.001MF	10%	2KV
C579	1-109-879-11	CERAMIC	22PF	5%	2KV
C580	1-137-370-11	FILM	0.01MF	5%	50V
C582	1-126-964-11	ELECT	10MF	20%	50V
C583	1-130-495-00	FILM	0.1MF	5%	50V
C584	1-130-495-00	FILM	0.1MF	5%	50V
C601 ⚠	1-117-693-11	CERAMIC	100PF	10%	250V
C602 ⚠	1-117-703-11	CERAMIC	0.0047MF	20%	250V
C604 ⚠	1-104-708-11	FILM	0.47MF	20%	250V
C605 ⚠	1-107-533-11	FILM	1MF	20%	250V
C606 ⚠	1-117-703-11	CERAMIC	0.0047MF	20%	250V
C608 ⚠	1-117-693-11	CERAMIC	100PF	10%	250V
C610	1-109-984-11	ELECT(BLOCK)	390MF	20%	400V
C613	1-136-203-11	FILM	10000PF	5%	630V
C614	1-136-177-00	FILM	1MF	5%	50V
C615	1-137-364-11	FILM	0.001MF	5%	50V
C616	1-130-014-00	CERAMIC	470PF	5%	50V
C617	1-137-366-11	FILM	0.0022MF	5%	50V
C618	1-102-106-00	CERAMIC	100PF	10%	50V
C619	1-125-700-11	ELECT(BLOCK)	220MF	20%	200V
C620	1-107-933-11	ELECT	100MF	20%	100V
C621	1-107-890-11	ELECT	2200MF	20%	25V
C622	1-126-941-11	ELECT	470MF	20%	25V
C623	1-126-942-61	ELECT	1000MF	20%	25V
C624	1-126-935-11	ELECT	470MF	20%	16V
C625	1-249-441-11	CARBON	100K	5%	1/4W
C626	1-107-889-11	ELECT	220MF	20%	25V
C627	1-107-889-11	ELECT	220MF	20%	25V
C628	1-104-665-11	ELECT	100MF	20%	25V
C629	1-117-703-11	CERAMIC	0.0047MF	20%	250V
C630	1-130-495-00	FILM	0.1MF	5%	50V
C632	1-107-914-11	ELECT	1000MF	20%	25V
C633	1-126-935-11	ELECT	470MF	20%	16V
C634	1-126-940-11	ELECT	330MF	20%	25V
C635	1-137-370-11	FILM	0.01MF	5%	50V
C637	1-130-495-00	FILM	0.1MF	5%	50V
C640	1-117-703-11	CERAMIC	0.0047MF	20%	250V
C642 ⚠	1-117-703-11	CERAMIC	0.0047MF	20%	250V
C643 ⚠	1-117-703-11	CERAMIC	0.0047MF	20%	250V
C644	1-104-664-11	ELECT	47MF	20%	25V
C645	1-137-358-11	FILM	0.0001MF	5%	50V
C647	1-102-228-00	CERAMIC	470PF	10%	500V
C661	1-102-516-11	CERAMIC	27PF	5%	50V
C662	1-126-933-11	ELECT	100MF	20%	16V
C701	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C702	1-126-964-11	ELECT	10MF	20%	50V
C703	1-136-169-00	FILM	0.22MF	5%	50V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C704	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C705	1-130-495-00	FILM	0.1MF	5%	50V
C706	1-102-973-00	CERAMIC	100PF	5%	50V
C707	1-102-973-00	CERAMIC	100PF	5%	50V
C708	1-130-495-00	FILM	0.1MF	5%	50V
C709	1-126-941-11	ELECT	470MF	20%	25V
C710	1-126-941-11	ELECT	470MF	20%	25V
C711	1-130-495-00	FILM	0.1MF	5%	50V
C712	1-130-495-00	FILM	0.1MF	5%	50V
C713	1-126-927-11	ELECT	2200MF	20%	10V
C714	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C715	1-126-935-11	ELECT	470MF	20%	16V
C902	1-126-935-11	ELECT	470MF	20%	16V
C903	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C905	1-137-375-11	FILM	0.068MF	5%	50V
C906	1-136-177-00	FILM	1MF	5%	50V
C907	1-126-960-11	ELECT	1MF	20%	50V
C908	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C909	1-126-926-11	ELECT	1000MF	20%	10V
C910	1-130-495-00	FILM	0.1MF	5%	50V
C911	1-137-370-11	FILM	0.01MF	5%	50V
C912	1-126-933-11	ELECT	100MF	20%	16V
C913	1-130-495-00	FILM	0.1MF	5%	50V
C914	1-102-514-11	CERAMIC	22PF	5%	50V
C915	1-102-514-11	CERAMIC	22PF	5%	50V
C916	1-126-965-11	ELECT	22MF	20%	50V
C917	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C918	1-126-964-11	ELECT	10MF	20%	50V
C920	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C921	1-126-935-11	ELECT	470MF	20%	16V
C922	1-126-960-11	ELECT	1MF	20%	50V
C923	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C924	1-126-965-11	ELECT	22MF	20%	50V
C925	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C926	1-126-935-11	ELECT	470MF	20%	16V
C927	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C928	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C929	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C930	1-137-370-11	FILM	0.01MF	5%	50V
C931	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C932	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C933	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C934	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C935	1-136-177-00	FILM	1MF	5%	50V
C936	1-163-259-91	CERAMIC CHIP	220PF	5%	50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
		CONNECTOR	
CN501 *	1-580-798-11	CONNECTOR PIN (DY) 6P	
CN502	*1-564-512-11	PLUG, CONNECTOR 9P	
CN512	1-695-915-11	TAB (CONTACT)	
CN513	1-695-915-11	TAB (CONTACT)	
CN602	*1-506-371-00	PIN, CONNECTOR 2P	
CN603 ⚠	*1-580-690-11	PIN, CONNECTOR (PC BOARD) 2P	
CN604 ⚠	*1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN605	1-695-915-11	TAB (CONTACT)	
CN701	1-564-511-11	PLUG, CONNECTOR 8P	
CN901	*1-508-879-11	BASE POST 4P	
CN902	1-564-513-11	PLUG, CONNECTOR 10P	
CN903	*1-564-510-11	PLUG, CONNECTOR 7P	
CN904	*1-564-506-11	PLUG, CONNECTOR 3P	
CN0002	1-695-915-11	TAB (CONTACT)	
CN9901	1-900-802-23	CONNECTOR ASSY, 4P	
CN9902	1-900-802-23	CONNECTOR ASSY, 4P	
		DIODE	
D401	8-719-979-58	DIODE EGP10D	
D402	8-719-109-81	DIODE RD4.7ESB2	
D403	8-719-911-19	DIODE 1SS119-25	
D501	8-719-110-31	DIODE RD12ESB2	
D502	8-719-975-77	DIODE SB340	
D504	8-719-110-49	DIODE RD18ESB2	
D505	8-719-941-74	DIODE ERB91-02	
D506	8-719-061-21	DIODE FMQ-G5FMS	
D507	8-719-109-85	DIODE RD5.1ESB2	
D509	8-719-110-17	DIODE RD10ESB2	
D510	8-719-018-82	DIODE ERA34-10TPI	
D511	8-719-109-85	DIODE RD5.1ESB2	
D512	8-719-911-19	DIODE 1SS119-25	
D513	8-719-066-40	DIODE MUR160	
D514	8-719-970-83	DIODE HSS82	
D515	8-719-018-82	DIODE RGP02-20EL-6394	
D516	8-719-051-97	DIODE 3DL41A(LC6-15)	
D517 ⚠	8-719-110-67	DIODE RD27ESB2	
D518	8-719-110-17	DIODE RD10ESB2	
D519	8-719-911-19	DIODE 1SS119-25	
D520	8-719-018-82	DIODE ERA34-10TP1	
D521	8-719-018-82	DIODE ERA34-10TPI	
D522	8-719-911-19	DIODE 1SS119-25	
D523	8-719-911-19	DIODE 1SS119-25	
D524	8-719-970-83	DIODE HSS82	
D525	8-719-970-83	DIODE HSS82	
D527	8-719-109-85	DIODE RD5.1ESB2	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
D601 ⚠	8-719-025-88	DIODE GBU4JL-6088	
D602	8-719-911-19	DIODE 1SS119-25	
D605	8-719-911-19	DIODE 1SS119-25	
D606	8-719-986-73	DIODE RB441Q	
D607	8-719-053-19	DIODE UF4007G23	
D608	8-719-110-49	DIODE RD18ESB2	
D609	8-719-986-73	DIODE RB441Q	
D610	8-719-302-43	DIODE EL1Z	
D611	8-719-970-83	DIODE HSS82	
D612	8-719-067-68	DIODE FMC-26UA	
D613	8-719-979-58	DIODE EGP10D	
D614	8-719-058-38	DIODE FMN-G12S	
D615	8-719-051-97	DIODE 3DL41A(LC6-15)	
D616	8-719-048-61	DIODE EGP20DL-6349	
D617	8-719-979-84	DIODE EGP20DPKG23	
D618	8-719-979-84	DIODE EGP20DPKG23	
D622	8-719-110-08	DIODE RD8.2ESB2	
D624	8-719-911-19	DIODE 1SS119-25	
D625	8-719-987-87	DIODE ERA85-009	
D626	8-719-987-87	DIODE ERA85-009	
D648	8-719-110-36	DIODE RD13ES-T1B2	
D649	8-719-991-33	DIODE 1SS133T-77	
D654	8-719-109-60	DIODE RD2.7ESB2	
D704	8-719-911-19	DIODE 1SS119-25	
D901	8-719-911-19	DIODE 1SS119-25	
D902	8-719-109-89	DIODE RD5.6ESB2	
D903	8-719-986-73	DIODE RB441Q	
D905	8-719-911-19	DIODE 1SS119-25	
D906	8-719-911-19	DIODE 1SS119-25	
D907	8-719-911-19	DIODE 1SS119-25	
D908	8-719-911-19	DIODE 1SS119-25	
D909	8-719-109-89	DIODE RD5.6ESB2	
D910	8-719-109-89	DIODE RD5.6ESB2	
D914	8-719-911-19	DIODE 1SS119-25	
D916	8-719-911-19	DIODE 1SS119-25	
D917	8-719-158-15	DIODE RD5.6SB	
D918	8-719-109-89	DIODE RD5.6ESB2	
D919	8-719-109-89	DIODE RD5.6ESB2	
D920	8-719-986-73	DIODE RB441Q	
D922	8-719-404-49	DIODE MA111	
D923	8-719-404-49	DIODE MA111	
D924	8-719-404-49	DIODE MA111	
D925	8-719-404-49	DIODE MA111	
D928	8-719-158-15	DIODE RD5.6SB	
D929	8-719-158-15	DIODE RD5.6SB	
D930	8-719-158-15	DIODE RD5.6SB	
D931	8-719-158-15	DIODE RD5.6SB	
D932	8-719-158-15	DIODE RD5.6SB	
D933	8-719-158-15	DIODE RD5.6SB	
D934	8-719-158-15	DIODE RD5.6SB	
D935	8-719-976-99	DIODE DTZ5.1B	
D9911	8-719-158-15	DIODE RD5.6SB	
D9913	8-719-158-15	DIODE RD5.6SB	

FUSE

F601 ⚠	1-576-231-11	FUSE (H.B.C.) 4A/250V	

FERRITE BEAD

FB502	1-410-396-41	FERRITE	0.45UH		
FB504	1-412-911-11	FERRITE			
FB506	1-412-911-11	FERRITE			
FB601	1-410-396-41	FERRITE	0.45UH		
FB602	1-410-396-41	FERRITE	0.45UH		
FB603	1-414-487-41	INDUCTOR	1UH		
FB604	1-412-911-11	FERRITE			
FB605	1-412-911-11	FERRITE			
FB606	1-410-396-41	FERRITE	0.45UH		
FB607	1-412-911-11	FERRITE			
FB608 ⚠	1-412-911-11	FERRITE			
FB609 ⚠	1-412-911-11	FERRITE			
FB610 ⚠	1-412-911-11	FERRITE			
FB611 ⚠	1-412-911-11	FERRITE			
FB612 ⚠	1-412-911-11	FERRITE			
FB613 ⚠	1-412-911-11	FERRITE			
FB614 ⚠	1-412-911-11	FERRITE			
FB615 ⚠	1-412-911-11	FERRITE			
FB616	1-412-911-11	FERRITE			
FB617	1-412-911-11	FERRITE			
FB902	1-247-807-31	CARBON	100	5%	1/4W
FB904	1-543-961-11	FERRITE			

IC

IC401	8-759-444-83	IC LA7840L
IC501 ⚠	8-759-478-76	IC UPC5021-109
IC502	8-759-803-42	IC LA6500-FA
IC503	8-759-803-42	IC LA6500-FA
IC601 ⚠	8-759-399-81	IC MC44603P
IC603 ⚠	8-749-012-59	IC MOC8105TV
IC604 ⚠	8-759-908-15	IC TL431CLP
IC605 ⚠	8-759-072-98	IC TDA8138A
IC701	8-759-478-66	IC CXA8070P
IC702	8-749-014-32	IC STK392-910A

D

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REF.NO.	PART NO.	DESCRIPTION	REMARK
IC900	8-759-525-10	IC TC7SET08F(TE85L)	
IC901	8-759-529-90	IC CXD8757S	
IC902	8-759-537-27	IC CXA8071AP	
IC904	8-759-165-81	IC PST600D-T	
IC905	8-759-370-34	IC ST24C08FB6	

CHIP CONDUCTOR

JR001	1-216-296-91	SHORT	
JR002	1-216-296-91	SHORT	
JR003	1-216-295-91	SHORT	
JR004	1-216-296-91	SHORT	
JR005	1-216-296-91	SHORT	
JR007	1-216-296-91	SHORT	
JR008	1-216-296-91	SHORT	
JR009	1-216-296-91	SHORT	
JR010	1-216-296-91	SHORT	
JR011	1-216-296-91	SHORT	
JR013	1-216-296-91	SHORT	
JR015	1-216-296-91	SHORT	
JR016	1-216-296-91	SHORT	
JR017	1-216-296-91	SHORT	
JR018	1-216-296-91	SHORT	
JR019	1-216-296-91	SHORT	
JR020	1-216-296-91	SHORT	
JR022	1-216-296-91	SHORT	
JR023	1-216-296-91	SHORT	
JR024	1-216-296-91	SHORT	
JR025	1-216-296-91	SHORT	
JR026	1-216-296-91	SHORT	
JR027	1-216-296-91	SHORT	
JR030	1-216-296-91	SHORT	

COIL

L501	1-412-531-31	INDUCTOR	33UH
L502	1-412-531-31	INDUCTOR	33UH
L503	1-411-594-41	INDUCTOR	
L505	1-412-552-11	INDUCTOR	2.2MMH
L506	1-412-545-11	INDUCTOR	470UH
L508	1-416-394-11	COIL, HORIZONTAL LINEARITY	
L509	1-416-393-11	COIL, HORIZONTAL LINEARITY	
L510	1-416-367-11	COIL, HORIZONTAL CENTER	
L603	1-412-537-31	INDUCTOR	100UH
L604	1-412-537-31	INDUCTOR	100UH
L605	1-406-665-11	INDUCTOR	
L606	1-406-665-11	INDUCTOR	
L701	1-412-537-31	INDUCTOR	100UH
L702	1-412-537-31	INDUCTOR	100UH
L901	1-412-537-31	INDUCTOR	100UH
L902	1-412-537-31	INDUCTOR	100UH

FILTER

LF602 ⚠	1-429-180-11	TRANSFORMER, LINE FILTER	

TRANSISTOR

Q501	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q502	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q503	8-729-035-54	TRANSISTOR 2SJ449	
Q504	8-729-031-89	TRANSISTOR 2SC3941A-Q(TA)	
Q505	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q506	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q507	8-729-041-64	TRANSISTOR BU2527AX-ON5020	
Q508	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q510	8-729-042-45	TRANSISTOR STP5NA80FI	
Q511 ⚠	8-729-042-34	TRANSISTOR IRFU110A	
Q512	8-729-043-16	TRANSISTOR IRLI520GLF33	
Q513	8-729-041-95	TRANSISTOR IRLI540GLF33	
Q514	8-729-041-93	TRANSISTOR IRLI530GLF33	
Q515	8-729-043-16	TRANSISTOR IRLI520GLF33	
Q516	8-729-043-16	TRANSISTOR IRLI520GLF33	
Q517	8-729-326-11	TRANSISTOR 2SC2611	
Q518	8-729-140-50	TRANSISTOR 2SC3209LK	
Q519	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q520	8-729-042-23	TRANSISTOR IRFI9620GSLF35	
Q521	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q522	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q523	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q601	8-729-029-92	TRANSISTOR DTC143ESA	
Q602 ⚠	8-729-926-79	TRANSISTOR IRFIBC40	
Q604 ⚠	8-729-029-66	TRANSISTOR DTC114ESA	
Q605	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q606	8-729-029-66	TRANSISTOR DTC114ESA	
Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q902	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q903	8-729-119-78	TRANSISTOR 2SC2785-HFE	

RESISTOR

R401	1-249-383-11	CARBON	1.5	5%	1/4W F
R402	1-215-866-11	METAL OXIDE	330	5%	1W F
R403	1-214-796-00	METAL	1.5	1%	1/2W
R404	1-215-439-00	METAL	5.6K	1%	1/4W
R405	1-214-796-00	METAL	1.5	1%	1/2W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R406	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R407	1-249-421-11	CARBON	2.2K	5%	1/4W
R408	1-216-073-00	RES,CHIP	10K	5%	1/10W
R409	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R410	1-215-447-00	METAL	12K	1%	1/4W
R411	1-216-688-11	METAL CHIP	36K	0.50%	1/10W
R500	1-249-377-11	CARBON	0.47	5%	1/4W F
R501	1-247-807-31	CARBON	100	5%	1/4W
R502	1-218-758-11	METAL CHIP	180K	0.50%	1/10W
R503	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R504	1-249-377-11	CARBON	0.47	5%	1/4W F
R505	1-216-073-00	RES,CHIP	10K	5%	1/10W
R506	1-215-481-00	METAL	330K	1%	1/4W
R507	1-215-431-00	METAL	2.7K	1%	1/4W
R508	1-247-807-31	CARBON	100	5%	1/4W
R509	1-247-863-91	CARBON	22K	5%	1/4W
R510	1-216-081-00	RES,CHIP	22K	5%	1/10W
R511	1-249-381-11	CARBON	1	5%	1/4W F
R512	1-249-389-11	CARBON	4.7	5%	1/4W
R513	1-215-888-00	METAL OXIDE	220	5%	2W F
R514	1-216-081-00	RES,CHIP	22K	5%	1/10W
R515	1-249-417-11	CARBON	1K	5%	1/4W F
R516	9-910-999-31	METAL	150	1%	1/2W
R517	1-216-393-00	METAL OXIDE	2.2	5%	3W F
R518	1-216-393-00	METAL OXIDE	2.2	5%	3W F
R519	1-216-089-91	RES,CHIP	47K	5%	1/10W
R520	1-249-397-11	CARBON	22	5%	1/4W F
R521	1-249-417-11	CARBON	1K	5%	1/4W F
R522	1-249-401-11	CARBON	47	5%	1/4W
R523	1-216-089-91	RES,CHIP	47K	5%	1/10W
R524	1-216-089-91	RES,CHIP	47K	5%	1/10W
R525	1-249-417-11	CARBON	1K	5%	1/4W F
R526	1-249-425-11	CARBON	4.7K	5%	1/4W
R527	1-249-429-11	CARBON	10K	5%	1/4W
R528	1-247-863-91	CARBON	22K	5%	1/4W
R529	1-249-429-11	CARBON	10K	5%	1/4W F
R530	1-216-474-11	METAL OXIDE	82	5%	3W F
R531	1-216-474-11	METAL OXIDE	82	5%	3W F
R532	1-249-385-11	CARBON	2.2	5%	1/4W F
R533	1-249-417-11	CARBON	1K	5%	1/4W F
R534	1-249-405-11	CARBON	100	5%	1/4W F
R535	1-216-089-91	RES,CHIP	47K	5%	1/10W
R536	1-249-417-11	CARBON	1K	5%	1/4W F
R537	1-216-089-91	RES,CHIP	47K	5%	1/10W
R538	1-215-905-11	METAL OXIDE	10	5%	3W F
R539	1-215-905-11	METAL OXIDE	10	5%	3W F
R540	1-215-476-00	METAL	200K	1%	1/4W
R541	1-215-421-00	METAL	1K	1%	1/4W
R542	1-215-421-00	METAL	1K	1%	1/4W
R543	1-249-389-11	CARBON	4.7	5%	1/4W F

REF.NO.	PART NO.	DESCRIPTION			REMARK
R544	1-215-493-00	METAL	1M	1%	1/4W
R545 ⚠	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R546 ⚠	1-215-457-00	METAL	33K	1%	1/4W
R547 ⚠	1-215-487-00	METAL	560K	1%	1/4W
R548 ⚠	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R549 ⚠	1-215-467-00	METAL	82K	1%	1/4W
R550 ⚠	1-215-427-00	METAL	1.8K	1%	1/4W
R551	1-215-453-00	METAL	22K	1%	1/4W
R552 ⚠	1-215-463-00	METAL	56K	1%	1/4W
R553	1-216-699-11	METAL CHIP	100K	0.50%	1/10W
R554	1-218-756-11	METAL CHIP	150K	0.50%	1/10W
R556	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R557	1-216-079-00	RES,CHIP	18K	5%	1/10W
R558	1-215-445-00	METAL	10K	1%	1/4W
R559	1-215-431-00	METAL	2.7K	1%	1/4W
R560	1-215-449-00	METAL	15K	1%	1/4W
R561	1-216-474-11	METAL OXIDE	82	5%	3W F
R562	1-215-447-00	METAL	12K	1%	1/4W
R563	1-249-383-11	CARBON	1.5	5%	1/4W F
R564	1-216-089-91	RES,CHIP	47K	5%	1/10W
R565	1-215-481-00	METAL	330K	1%	1/4W
R566	1-215-859-00	METAL OXIDE	22	5%	1W F
R567	1-216-073-00	RES,CHIP	10K	5%	1/10W
R568	1-249-437-11	CARBON	47K	5%	1/4W
R569	1-216-643-11	METAL CHIP	470	0.50%	1/10W
R570	1-249-417-11	CARBON	1K	5%	1/4W
R571	1-215-926-00	METAL OXIDE	33K	5%	3W F
R572	1-249-437-11	CARBON	47K	5%	1/4W
R573	1-247-887-00	CARBON	220K	5%	1/4W
R574	1-249-429-11	CARBON	10K	5%	1/4W
R575	1-260-314-11	CARBON	68	5%	1/2W
R576	1-249-437-11	CARBON	47K	5%	1/4W
R577	1-216-447-00	METAL OXIDE	27	5%	2W F
R578	1-216-447-00	METAL OXIDE	27	5%	2W F
R579	1-247-883-00	CARBON	150K	5%	1/4W
R580	1-216-077-00	RES,CHIP	15K	5%	1/10W
R581	1-249-429-11	CARBON	10K	5%	1/4W
R582	1-249-402-11	CARBON	56	5%	1/4W F
R583	1-216-073-00	RES,CHIP	10K	5%	1/10W
R584	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R585	1-260-099-11	CARBON	1K	5%	1/2W
R586	1-260-103-11	CARBON	2.2K	5%	1/2W
R587	1-216-049-91	RES,CHIP	1K	5%	1/10W
R589	1-249-425-11	CARBON	4.7K	5%	1/4W
R590	1-215-453-00	METAL	22K	1%	1/4W
R591	9-910-999-31	METAL	150	1%	1/2W
R592	9-910-999-31	METAL	150	1%	1/2W
R593	1-215-423-00	METAL	1.2K	1%	1/4W
R600 ⚠	1-205-998-11	CEMENTED	1	5%	10W

D

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R603	1-249-403-11	CARBON	68	5%	1/4W
R604 ⚠	1-202-847-00	SOLID	560K	20%	1/2W
R605 ⚠	1-202-933-61	FUSIBLE	0.1	10%	1/2W F
R609	1-215-927-00	METAL OXIDE	47K	5%	3W F
R610	1-215-927-00	METAL OXIDE	47K	5%	3W F
R611	1-215-445-00	METAL	10K	1%	1/4W
R612	1-249-392-11	CARBON	8.2	5%	1/4W
R613	1-249-429-11	CARBON	10K	5%	1/4W
R614	1-216-381-11	METAL OXIDE	0.22	5%	3W F
R615	1-247-885-00	CARBON	180K	5%	1/4W
R617	1-249-417-11	CARBON	1K	5%	1/4W
R618	1-215-411-00	METAL	390	1%	1/4W
R619	1-249-421-11	CARBON	2.2K	5%	1/4W
R620	1-247-863-91	CARBON	22K	5%	1/4W
R621 ⚠	1-211-761-11	FUSIBLE	0.1	10%	1/2W
R622 ⚠	1-211-874-11	FUSIBLE	0.12	10%	1/2W
R623 ⚠	1-211-874-11	FUSIBLE	0.12	10%	1/2W
R624 ⚠	1-219-154-11	FUSIBLE	0.12	10%	1/4W
R625 ⚠	1-219-154-11	FUSIBLE	0.12	10%	1/4W
R626	1-215-405-00	METAL	220	1%	1/4W
R627	1-130-495-00	CARBON	0.1MF	5%	50V
R628	1-215-479-00	METAL	270K	1%	1/4W
R629	1-215-449-00	METAL	15K	1%	1/4W
R630	1-215-437-00	METAL	4.7K	1%	1/4W
R631	1-215-405-00	METAL	220	1%	1/4W
R632	1-216-033-00	RES,CHIP	220	5%	1/10W
R633	1-249-429-11	CARBON	10K	5%	1/4W
R634	1-249-431-11	CARBON	15K	5%	1/4W
R635	1-216-049-91	RES,CHIP	1K	5%	1/10W
R636	1-216-049-91	RES,CHIP	1K	5%	1/10W
R637	1-216-351-00	METAL OXIDE	1.5	5%	1W F
R638	1-215-435-00	METAL	3.9K	1%	1/4W
R639 ⚠	1-211-761-11	FUSIBLE	0.1	10%	1/2W
R641	1-249-429-11	CARBON	10K	5%	1/4W F
R642	1-260-127-11	CARBON	220K	5%	1/2W
R643	1-215-435-00	METAL	3.9K	1%	1/4W
R644	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W
R645	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R646	1-249-441-11	CARBON	100K	5%	1/4W
R649	1-218-642-11	METAL OXIDE	100K	5%	1W F
R675	1-249-401-11	CARBON	47	5%	1/4W
R703	1-260-092-11	CARBON	270	5%	1/2W
R704	1-215-445-00	METAL	10K	1%	1/4W
R705	1-249-425-11	CARBON	4.7K	5%	1/4W
R706	1-249-425-11	CARBON	4.7K	5%	1/4W
R707	1-249-429-11	CARBON	10K	5%	1/4W
R708	1-249-429-11	CARBON	10K	5%	1/4W
R709	1-249-429-11	CARBON	10K	5%	1/4W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R710	1-249-429-11	CARBON	10K	5%	1/4W
R711	1-216-346-00	METAL OXIDE	0.56	5%	1W F
R712	1-215-860-11	METAL OXIDE	33	5%	1W F
R713	1-216-347-11	METAL OXIDE	0.68	5%	1W F
R716	1-215-860-11	METAL OXIDE	33	5%	1W F
R717	1-216-353-00	METAL OXIDE	2.2	5%	1W F
R718	1-215-863-11	METAL OXIDE	100	5%	1W F
R719	1-249-431-11	CARBON	15K	5%	1/4W
R724	1-216-423-11	METAL OXIDE	27	5%	1W F
R727	1-249-431-11	CARBON	15K	5%	1/4W
R728	1-215-863-11	METAL OXIDE	100	5%	1W F
R729	1-216-353-00	METAL OXIDE	2.2	5%	1W F
R730	1-215-860-11	METAL OXIDE	33	5%	1W F
R903	1-249-417-11	CARBON	1K	5%	1/4W
R904	1-249-417-11	CARBON	1K	5%	1/4W
R906	1-216-073-00	RES,CHIP	10K	5%	1/10W
R907	1-260-087-11	CARBON	100	5%	1/2W
R908	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R909	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R910	1-247-815-91	CARBON	220	5%	1/4W
R911	1-249-412-11	CARBON	390	5%	1/4W
R912	1-249-417-11	CARBON	1K	5%	1/4W
R913	1-247-807-31	CARBON	100	5%	1/4W
R914	1-247-807-31	CARBON	100	5%	1/4W
R915	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R916	1-216-077-00	RES,CHIP	15K	5%	1/10W
R917	1-216-077-00	RES,CHIP	15K	5%	1/10W
R918	1-249-417-11	CARBON	1K	5%	1/4W
R919	1-249-417-11	CARBON	1K	5%	1/4W
R920	1-216-049-91	RES,CHIP	1K	5%	1/10W
R922	1-216-073-00	RES,CHIP	10K	5%	1/10W
R924	1-249-429-11	CARBON	10K	5%	1/4W
R925	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R927	1-216-295-91	SHORT	0		
R929	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R931	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R933	1-249-417-11	CARBON	1K	5%	1/4W
R934	1-249-429-11	CARBON	10K	5%	1/4W
R935	1-247-807-31	CARBON	100	5%	1/4W
R936	1-247-807-31	CARBON	100	5%	1/4W
R937	1-249-417-11	CARBON	1K	5%	1/4W
R938	1-247-807-31	CARBON	100	5%	1/4W
R940	1-215-431-00	METAL	2.7K	1%	1/4W
R941	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R943	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R951	1-216-025-91	RES,CHIP	100	5%	1/10W
R953	1-216-073-00	RES,CHIP	10K	5%	1/10W
R954	1-216-073-00	RES,CHIP	10K	5%	1/10W
R957	1-216-017-91	RES,CHIP	47	5%	1/10W

D H
S U1

Note: The components Identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R958	1-216-017-91	RES,CHIP	47	5%	1/10W
R959	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R961	1-216-025-91	RES,CHIP	100	5%	1/10W
		VARIABLE RESISTOR			
RV501⚠	1-241-767-21	RES, ADJ, CERMET 100K			
	3-710-578-01	COVER, VOLUME, 6 MOLD (for RV501)			
RV601	1-223-480-11	RES, ADJ, CERMET 5K			
		RELAY			
RY500	1-755-137-11	RELAY			
RY601⚠	1-755-031-11	RELAY			
		SWITCH			
S901	1-692-431-21	SWITCH, TACTILE			
S902	1-692-431-21	SWITCH, TACTILE			
S903	1-692-431-21	SWITCH, TACTILE			
		SPARK GAP			
SG501⚠	1-519-422-11	GAP, SPARK			
		TRANSFORMER			
T501 ⚠	1-453-241-11	TRANSFORMER ASSY, FLYBACK (NX-4400//X4L4)			
T503	1-429-109-11	TRANSFORMER, FERRITE (DFT)			
T504 ⚠	1-429-103-11	TRANSFORMER, FERRITE (HDT)			
T505	1-429-211-11	TRANSFORMER, FERRITE (HST)			
T601 ⚠	1-431-534-11	TRANSFORMER, CONVERTER (SRT)			
		THERMISTOR			
TH501	1-807-796-11	THERMISTOR			
TH502	1-807-796-11	THERMISTOR			
TH600⚠	1-809-827-11	THERMISTOR			
TH601⚠	1-809-827-11	THERMISTOR, POSITIVE			
		VARISTOR			
VA600⚠	1-810-622-11	VARISTOR			
VA601⚠	1-810-271-21	VARISTOR ZNR-14DK471U			
		CRYSTAL			
X901	1-767-641-21	VIBRATOR, CRYSTAL			
X902	1-767-933-11	OSCILLATOR, CERAMIC			

REF.NO.	PART NO.	DESCRIPTION	REMARK
		H	
*		**A-1372-451-A H BOARD, MOUNTED** (US/CANADIAN, AEP, NH, SH, AUS models made in US)	
*		**A-1372-473-A H BOARD, MOUNTED** (AEP, UK models made in UK)	
		CONNECTOR	
CN9101*	1-900-802-24	CONNECTOR ASSY, 4P	
		VARISTOR	
VR9101	1-237-979-11	RES, VAR, CARBON 10K	
VR9102	1-237-979-11	RES, VAR, CARBON 10K	
		S	
*		**A-1390-837-A S BOARD, MOUNTED** (US/CANADIAN, AEP, NH, SH, AUS models made in US)	
*		**A-1390-846-A S BOARD, MOUNTED** (AEP, UK models made in UK)	
		DIODE	
D9201	8-719-070-70	DIODE EL1224UGC	
D9202	8-719-070-71	DIODE EL1224UYC/S190	
		SWITCH	
S6601⚠	1-571-433-21	SWITCH, PUSH (AC POWER)	
		U1	
*		**A-1373-668-A U1 BOARD, MOUNTED** (US/CANADIAN, AEP, NH, SH, AUS models made in US)	
*		**A-1394-885-A U1 BOARD, MOUNTED** (AEP, UK models made in UK)	
		CONNECTOR	
CN1301	1-779-642-12	CONNECTOR, USB (A)	
CN1302	1-900-802-69	CONNECTOR ASSY, 5P BOARD IN	

U2

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REF.NO.	PART NO.	DESCRIPTION	REMARK

U2

* **A-1373-669-A U2 BOARD, MOUNTED**
(US/CANADIAN, AEP, NH, SH, AUS models made in US)

* **A-1394-886-A U2 BOARD, MOUNTED**
(AEP, UK models made in UK)

CONNECTOR

CN1303	1-900-802-69	CONNECTOR ASSY, 5P BOARD IN
CN1304	1-779-677-11	CONNECTOR, USB (B)

MISCELLANEOUS

⚠	1-416-282-21	COIL, DEMAGNETIC
⚠	1-452-923-21	NECK ASSY
⚠	1-453-241-11	TRANSFORMER ASSY, FLYBACK (NX-4400//X4L4)
	1-500-386-11	FILTER CLAMP (FERRITE CORE)
⚠	1-558-481-11	CORD SET, POWER (AUS model made in US)
⚠	1-765-719-11	CORD SET, POWER (AEP models made in US and UK)
⚠	1-776-027-41	CORD SET, POWER (US/CND models made in US)
*	1-783-562-11	CABLE ASSY VIDEO (15P D-SUB)
	3-704-372-31	HOLDER, HV CABLE
	4-041-021-02	HOLDER, DGC
	4-041-758-02	HOLDER, DGC
	4-812-134-21	RIVET
⚠	8-451-490-11	DY Y17FRJ3-M (AEP, UK models made in UK)
⚠	8-451-490-21	DY Y17FRJ3-M
		(US/CANADIAN, AEP, NH, SH, AUS models made in US)
⚠	8-738-733-83	ITC ASSY, 17FRFM-R3
		(US/CND, AEP, NH models made in US) / (AEP, UK models made in UK)
⚠	8-738-728-81	ITC ASSY, 17FRFM-RS2 (AUS, SH models made in US)
⚠	8-738-726-05	CRT, 17FRFM (M41LKN50X)
		(US/CND, AEP, NH models made in US) / (AEP, UK models made in UK)
⚠	8-738-728-05	CRT, 17FRFM (M41LKN15X) (AUS, SH models made in US)

REF.NO.	PART NO.	DESCRIPTION	REMARK

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